

MTC

microwave technology corporation

GENERAL DESCRIPTION ON ISOLATORS AND CIRCULATORS

A junction circulators is a 3 ports device formed by a symmetrical Y junction coupled to magnetically biased ferrite material. The circulators permits flow of microwave in energy one direction only, e.g. from port 1 to 2, 2 to 3 and 3 to 1.

When one of the ports is terminated (matched condition) the other two are isolated in the reverse direction. Thus an isolator becomes a circulator, which has a matched termination, usually integral to the unit, on port 3.

Insertion loss : The difference of the measured power at the output port of an isolator/circulator, relative to the power at the input port with all other ports terminated into 50 ohms.

Isolation : Amount of power reduction measured at output port in relative to the power level at input port with all other ports terminated with 50 ohms when the transmission in reverse direction. Denoted in dB, a single junction isolator/circulator will typically provide 20-25 dB of isolation.

Input and Output VSWR : Most RF and microwave systems are designed around a 50 ohm impedance system. An isolator/circulator's impedance is designed to be as close as possible to 50 ohms; however, this is not always possible. The Voltage Standing Wave Ratio (VSWR) of an isolator/circulator is a measure of an isolator/circulator's actual impedance (Z) with respect to the desired impedance (Z_0), in most cases 50 ohms.

Operating Frequency Range : The operating frequency range is the range of frequencies over which the isolator/circulator will meet or exceed the specification parameters. The isolator/circulator may perform beyond this frequency range, and in cases where the isolator/circulator is specified over less than an octave, the actual frequency response may be significantly greater than the specified operating frequency range.

129/1 Moo 3, Tambol Wang-Chula, Amphur Wang-noi, Ayutthaya 13170 THAILAND.

Tel. : (6635) 721-556-7, 721-559 Fax : (6635) 721-558

E-mail : thanakornc@loxinfo.co.th <http://www.microwave.co.th>

To learn more about us, visit www.microwave.co.th

2007 All rights reserved, Microwave Technology Corporation

microwave technology corporation

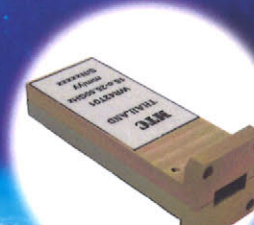
designers and manufacturers of microwave and wireless products

MTC

iso 9001:2008



DROP-IN ISOLATORS & CIRCULATORS
WAVEGUIDE ISOLATORS & CIRCULATORS
WAVEGUIDE POWER TERMINATION
WAVEGUIDE TO SMA COAXIAL ADAPTOR
COAX ISOLATORS & CIRCULATORS



Technology that talks to the world

129/1 Moo 3, Tambol Wang-Chula, Amphur Wang-noi, Ayutthaya 13170 THAILAND.

Tel. : (6635) 721-556-7, 721-559 Fax : (6635) 721-558

E-mail : thanakornc@loxinfo.co.th <http://www.microwave.co.th>



ABOUT MTC

Microwave Technology Corporation (MTC) is a leading Designer & Manufacturer of Superior quality ferrites Isolator, Circulators, Drop In, Surface Mount, Flange Mount and Waveguide Adaptor with frequencies up to 40 GHz.

In 1985, the company was found in Bangkok, Thailand

In 1996, the company relocated to Factoryland Wang-Noi Estate Development Zone in the ancient former capital city of Ayutthaya 70 KM to the north of Bangkok. This new 5000 square foot facility was designed to optimize productivity, allowed us to increase our production and become more competitive advantage. In additional, the company has obtained an investment promotion privilege from the Board of Investment (BOI) Thailand and to take advantage of lower operating and fixed costs.

In 1997, the company was acquired by Mitec Telecom Group of Canada.

In 2003, the company was purchased by the current owner Mr.Thanakorn Chaonakaew, who was the General Manager under Mitec and as the President and CEO, he has continued the excellent reputation of MTC.

MTC has been an Original Equipment Manufacturer (OEM) suppliers for North America, Europe, Asia and Australia for over 30 years. The company earned the prestigious ISO 9001 Certified Manufacturing Process. Our Machine Shop is equipped with CNC machining centers to produce high precision parts, while our Microwave Tuning Laboratory is equipped with the most modern instrumentation equipments for frequency adjustment. Standard catalog products can be modified, or our new designs can be developed, to meet each customer's special requirements. Please tell us your needs and we will be happy to work with you.

Our goal and mission is to serve our customers with high quality products, delivered on time, at a competitive price.

We welcome the opportunity to meet each customer's needs and strive for 100% customer satisfaction.

We look forward to answering any inquiries you may have.



MTC

microwave technology corporation

microwave technology corporation

MODEL NO.	FREQUENCY GHz	ISOLATION dB [Min.]	INSERTION LOSS dB [Max.]	VSWR [Max.]	OPERATING TEMPERATURE °C	CIRCULATOR POWER [Watts]		DIMENSION [W x L x T] mm.	WEIGHT Grams
						Peak	Average		
B129	0.290-0.300	20	0.40	1.25	0 to +60	500	100	48x51x26	265
B124	0.290-0.310	20	0.40	1.25	0 to +60	500	100	48x51x26	265
B127	0.300GHz+-10MHz	23	0.40	1.20	0 to +60	500	100	48x51x26	265
B141	0.310-0.330	20	0.40	1.25	0 to +60	500	100	48x51x26	265
B125	0.330-0.360	19	0.35	1.30	0 to +60	500	100	48x51x26	265
B138	0.350-0.450	16	0.90	1.50	0 to +60	500	100	48x51x26	265
B131	0.375-0.383	20	0.50	1.25	0 to +60	500	100	48x51x26	265
B139	0.380-0.395	23	0.50	1.15	0 to +60	500	100	48x51x26	265
B134	0.380-0.402	20	0.50	1.35	0 to +60	500	100	48x51x26	265
B123	0.380-0.430	18	0.40	1.30	0 to +60	500	100	48x51x26	265
B135	0.385-0.402	20	0.30	1.25	0 to +60	500	100	48x51x26	265
B140	0.390-0.395	22	0.50	1.20	0 to +60	500	100	48x51x26	265
B105	0.396-0.404	25	0.50	1.20	0 to +60	500	100	48x51x26	265
B133	0.400-0.500	18	0.50	1.35	0 to +60	500	100	48x51x26	265
B136	0.400-0.520	17	0.80	1.38	0 to +60	500	100	48x51x26	265
B126	0.400GHz+-10MHz	23	0.40	1.20	0 to +60	500	100	48x51x26	265
B114	0.402-0.412	23	0.50	1.20	0 to +60	500	100	48x51x26	265
B132	0.406-0.430	23	0.35	1.15	0 to +60	500	100	48x51x26	265
B128	0.412-0.422	23	0.50	1.20	0 to +60	500	100	48x51x26	265
B130	420.19-420.21MHz	25	0.25	1.12	0 to +60	500	100	48x51x26	265
B113	0.420-0.430	25	0.50	1.20	0 to +60	500	100	48x51x26	265
B106	0.424-0.431	25	0.50	1.20	0 to +60	500	100	48x51x26	265
B115	0.430-0.460	20	0.50	1.25	0 to +60	500	100	48x51x26	265
B122	0.444GHz+-5MHz	25	0.40	1.20	0 to +60	500	100	48x51x26	265
B120	0.450-0.462	23	0.50	1.20	0 to +60	500	100	48x51x26	265
B121	0.450-0.470	19	0.60	1.25	0 to +60	500	100	48x51x26	265
B107	0.455-0.457	25	0.50	1.20	0 to +60	500	100	48x51x26	265
B108	0.460-0.468	25	0.50	1.20	0 to +60	500	100	48x51x26	265
B112	0.460-0.490	20	0.50	1.20	0 to +60	500	100	48x51x26	265
B109	0.463-0.470	25	0.50	1.20	0 to +60	500	100	48x51x26	265
B110	0.468-0.472	25	0.50	1.20	0 to +60	500	100	48x51x26	265
C196	0.470-0.568	20	0.35	1.22	0 to +50	500	100	52x52x26	380
C1108	0.470-0.600	16	0.90	1.40	0 to +60	500	100	48x51x26	265
C177	0.470-0.610	17	0.90	1.40	0 to +50	500	100	52x52x26	380
B111	0.487-0.494	25	0.50	1.20	0 to +50	500	100	48x51x26	265
C186	0.490-0.530	17	0.90	1.40	0 to +50	500	100	52x52x26	380
B137	0.498-0.502	25	0.35	1.12	0 to +60	500	100	48x51x26	265
C1104	0.500-0.650	18	0.50	1.35	0 to +60	500	100	48x51x26	265
C194	0.500-0.700	15	0.85	1.50	0 to +50	500	100	52x52x26	380
C197	0.568-0.665	20	0.35	1.22	0 to +50	500	100	52x52x26	380
C111	0.570-0.630	20	0.60	1.25	0 to +50	500	100	52x52x26	380
C178	0.580-0.720	18	0.70	1.35	0 to +50	500	100	52x52x26	380
C179	0.600-0.800	16	0.70	1.40	0 to +50	500	100	52x52x26	380
C192	0.610-0.650	20	0.40	1.25	0 to +50	500	100	52x52x26	380
C180	0.610-0.810	18	0.60	1.33	0 to +50	500	100	52x52x26	380
C181	0.610-0.960	15	1.10	1.55	0 to +50	500	100	52x52x26	380
C191	0.625-0.875	18	0.60	1.30	0 to +50	500	100	52x52x26	380
C1105	0.650-0.800	18	0.50	1.35	0 to +50	500	100	52x52x26	380
C189	0.650-0.850	18	0.50	1.35	0 to +50	500	100	52x52x26	380
C1101	0.650-0.900	19	0.45	1.30	0 to +50	500	100	52x52x26	380
C198	0.665-0.763	20	0.35	1.22	0 to +50	500	100	52x52x26	380
C188	0.675-0.825	20	0.40	1.25	0 to +50	500	100	52x52x26	380
C1100	0.686-0.710	20	0.40	1.20	0 to +50	500	100	52x52x26	380
C184	0.690-0.860	20	0.50	1.25	0 to +50	500	100	52x52x26	380
C1110	0.694-0.702	20	0.50	1.20	0 to +50	500	100	52x52x26	380
C193	0.700-1.000	15	0.95	1.55	0 to +50	500	100	52x52x26	380
C1111	0.710-0.718	20	0.50	1.20	0 to +50	500	100	52x52x26	380
C1106	0.750-1.000	19	0.50	1.30	0 to +50	500	100	52x52x26	380

MTC

microwave technology corporation

microwave technology corporation

MODEL NO.	FREQUENCY GHz	ISOLATION dB [Min.]	INSERTION LOSS dB [Max.]	VSWR [Max.]	OPERATING TEMPERATURE °C	CIRCULATOR POWER [Watts]		DIMENSION [W x L x T] mm.	WEIGHT Grams
						Peak	Average		
C182	0.760-0.960	19	0.50	1.30	0 to +50	500	100	52x52x26	380
C199	0.763-0.860	20	0.35	1.22	0 to +50	500	100	52x52x26	380
C152	0.790-0.880	20	0.40	1.25	0 to +50	500	65	35x40x26	185
C1102	0.800GHz+/-15MHz	20	0.40	1.25	0 to +50	500	50	32x34x19	90
C160	0.800-0.900	20	0.40	1.25	0 to +50	500	65	35x40x26	185
C190	0.800-0.950	19	0.50	1.27	0 to +50	500	65	35x40x26	185
C169	0.800-1.000	18	0.60	1.35	0 to +50	500	65	35x40x26	185
C185	0.800-1.100	17	0.70	1.40	0 to +50	500	100	52x52x26	380
D160	0.800-1.350	16	0.80	1.45	0 to +50	100	50	70x70x22	340
D192	0.800-2.000	14.5	0.80	1.55	0 to +50	100	50	70x70x22	340
C195	0.824-0.894	20	0.40	1.25	0 to +50	500	65	35X40X26	185
C1112	0.840-0.960	20	0.40	1.25	0 to +50	500	65	35X40X26	185
C150	0.840-0.935	20	0.40	1.25	0 to +50	500	65	35X40X26	185
D1101	0.850-2.000	14.5	0.80	1.55	0 to +50	100	50	70x70x22	340
C162	0.860-0.960	20	0.40	1.25	0 to +50	500	65	35x40x26	185
C166	0.870-0.896	25	0.40	1.20	0 to +50	500	65	35x40x26	185
C163	0.870-0.960	20	0.40	1.25	0 to +50	500	65	35x40x26	185
C153	0.880-0.950	20	0.50	1.25	0 to +50	500	50	32x34x19	90
C168	0.880-0.960	20	0.50	1.25	0 to +50	500	65	35x40x26	185
D1102	0.880-1.880	16	0.70	1.45	0 to +50	100	50	70x70x22	340
C165	0.890-0.915	25	0.50	1.15	0 to +50	500	50	32x34x19	90
C154	0.890-0.960	20	0.50	1.25	0 to +50	500	50	32x34x19	90
C173	0.890-0.960	25	0.40	1.20	0 to +50	500	100	52x52x26	380
D184	0.890-1.880	16	0.70	1.45	0 to +50	100	50	70x70x22	340
D186	0.890-2.000	16	0.70	1.45	0 to +50	100	50	70x70x22	340
C113	0.896-0.942	23	0.50	1.15	0 to +50	500	50	32x34x19	90
C1103	0.900GHz+/-15MHz	20	0.40	1.25	0 to +50	500	50	32x34x19	90
C187	0.900-0.950	25	0.40	1.12	0 to +50	500	100	52x52x26	380
D151	0.900-1.500	16	0.80	1.45	0 to +50	100	50	70x70x22	340
D1112	0.900-1.900	16	0.70	1.38	0 to +50	100	50	70x70x22	340
D162	0.900-2.000	18	0.50	1.35	0 to +50	100	50	70x70x22	340
D1105	0.900-2.200	15	0.90	1.50	0 to +50	100	50	70x70x22	340
C1113	0.902-0.956	20	0.50	1.25	0 to +50	500	50	32x34x19	90
C105	0.910-0.920	25	0.50	1.15	0 to +50	500	50	32x34x19	90
C106	0.910-1.050	18	0.60	1.35	0 to +50	500	50	32x34x19	90
C176	0.915-0.960	20	0.50	1.25	0 to +50	500	65	35x40x26	185
C159	0.917-0.950	23	0.40	1.15	0 to +50	500	65	35x40x26	185
C164	0.917-0.960	20	0.50	1.25	0 to +50	500	65	35x40x26	185
C183	0.930-0.960	25	0.40	1.20	0 to +50	500	100	35x40x26	185
C156	0.930-0.965	23	0.50	1.15	0 to +50	500	50	32x34x19	90
C174	0.935-0.960	25	0.30	1.15	0 to +50	500	65	35x40x26	185
D104	0.935-1.890	16	0.70	1.40	0 to +50	100	50	70x70x22	340
D181	0.935-2.000	16	0.90	1.45	0 to +50	100	50	70x70x22	340
C151	0.950-1.000	20	0.50	1.25	0 to +50	500	50	32x34x19	90
D107	0.950-1.050	20	0.50	1.25	0 to +50	500	50	32x34x19	90
D1116	0.950-1.225	18	0.50	1.30	0 to +50	100	50	70x70x22	340
D131	0.950-1.250	20	0.50	1.25	0 to +50	100	50	70x70x22	340
D196	0.950-1.450	18	0.40	1.25	0 to +50	100	50	70x70x22	340
D1107	0.950-1.750	18	0.50	1.35	0 to +50	100	50	70x70x22	340
D1120	0.950-2.000	16	0.80	1.40	0 to +50	100	50	70x70x22	340
D180	0.950-2.050	16	0.80	1.40	0 to +50	100	50	70x70x22	340
D190	0.950-2.150	16	0.70	1.40	0 to +50	100	50	70x70x22	340
D123	0.960-1.250	20	0.40	1.25	0 to +50	100	50	70x70x22	340
D191	0.960-2.200	15	0.85	1.50	0 to +50	100	50	70x70x22	340
D1100	0.970-1.110	18	0.60	1.30	0 to +50	500	50	32x34x19	90
D105	0.980-2.050	17	0.60	1.35	0 to +50	100	50	70x70x22	340
D109	1.000-1.100	20	0.50	1.25	0 to +50	500	50	32x34x19	90
D173	1.000-1.400	20	0.40	1.25	0 to +50	100	50	70x70x22	340

MTC

microwave technology corporation

microwave technology corporation

MODEL NO.	FREQUENCY GHz	ISOLATION dB [Min.]	INSERTION LOSS dB [Max.]	VSWR [Max.]	OPERATING TEMPERATURE °C	CIRCULATOR POWER [Watts]		DIMENSION [W x L x T] mm.	WEIGHT Grams
						Peak	Average		
D1117	1.000-1.500	20	0.50	1.25	0 to +50	100	50	70x70x22	340
D163	1.000-1.600	20	0.40	1.25	0 to +50	100	50	70x70x22	340
D106	1.000-2.000	17	0.50	1.35	0 to +50	100	50	70x70x22	340
D183	1.000-2.000	18	0.50	1.30	0 to +50	100	50	70x70x22	340
D125	1.030-1.090	20	0.50	1.25	0 to +50	500	50	32x34x19	90
D168	1.050-1.090	26	0.40	1.10	0 to +50	500	50	32x34x19	90
D167	1.050-1.250	23	0.40	1.20	0 to +50	100	50	70x70x22	340
D1106	1.090+/-30MHz	20	0.30	1.15	0 to +50	500	50	32x34x19	90
D198	1.100-1.400	18	0.50	1.35	0 to +50	500	50	32x34x19	90
D132	1.100-1.700	20	0.50	1.25	0 to +50	100	50	70x70x22	340
D122	1.120-2.240	17	0.60	1.35	0 to +50	100	50	70x70x22	340
D169	1.135-1.175	26	0.40	1.10	0 to +50	500	50	25X29X19	60
D108	1.200-1.400	20	0.50	1.25	0 to +50	500	50	32X34X19	90
D1115	1.200-1.400	20	0.50	1.25	-	-	-	33x34x21	90
D124	1.200-1.600	23	0.50	1.15	0 to +50	100	50	70x70x22	340
D1103	1.215-1.400	20	0.5	1.25	0 to +50	500	50	31.7x31.7x19.2	90
D145	1.230-1.370	23	0.30	1.15	0 to +50	500	50	38.10x38.10x19	185
D1111	1.270-1.330	20	0.40	1.25	0 to +50	500	50	32x34x19	90
D110	1.300-1.500	20	0.50	1.25	0 to +50	500	50	32x34x19	90
D1119	1.300-1.530	20	0.50	1.25	0 to +50	500	50	32x34x19	90
E181	1.300-2.750	15	1.00	1.50	0 to +50	100	50	54x54x21	200
D153	1.350-1.850	20	0.50	1.25	0 to +50	100	50	70x70x22	340
D183	1.375-1.457	20	0.40	1.25	0 to +50	500	50	38x38x19	100
D150	1.400-1.540	20	0.40	1.25	0 to +50	500	50	32x34x19	90
D111	1.400-1.600	20	0.50	1.25	0 to +50	500	50	32x34x19	90
D1110	1.400-1.650	20	0.50	1.25	0 to +50	500	50	32x34x19	90
D177	1.400-1.800	20	0.50	1.25	0 to +50	500	50	38x38x19	100
D112	1.400-2.500	17	0.50	1.35	0 to +50	100	50	54x54x21	200
E171	1.400-2.700	17	0.60	1.35	0 to +50	100	50	54x54x21	200
D138	1.427-1.530	23	0.50	1.15	0 to +50	500	50	32x34x19	90
D195	1.430-1.540	23	0.50	1.15	0 to +50	500	50	32x34x19	90
D1114	1.450-1.650	20	0.50	1.17	0 to +50	500	50	32x34x19	90
D189	1.452-1.492	23	0.30	1.15	0 to +50	500	50	32x34x19	90
D199	1.490-1.690	16	0.70	1.45	0 to +50	500	50	38x38x19	100
D172	1.500-1.600	20	0.30	1.25	0 to +50	500	50	32x34x19	90
D113	1.500-1.700	20	0.50	1.25	0 to +50	500	50	32x34x19	90
D1118	1.500-2.000	20	0.50	1.15	0 to +50	100	50	70x70x22	340
E105	1.500-3.000	17	0.60	1.35	0 to +55	100	50	54x54x21	200
D158	1.540-1.740	20	0.50	1.25	0 to +50	500	50	32x34x19	90
D159	1.555-1.595	20	0.50	1.25	0 to +50	500	50	32x34x19	90
D185	1.575GHz+/-10MHz	20	0.40	1.25	0 to +50	500	50	32x34x19	90
D1108	1.596GHz+/-10MHz	20	0.25	1.25	0 to +50	500	50	32x34x19	90
D188	1.600-1.800	21	0.40	1.20	0 to +50	500	50	32x34x19	90
E125	1.600-2.300	20	0.40	1.25	0 to +55	100	50	54x54x21	200
E177	1.600-2.400	20	0.50	1.25	0 to +50	100	50	54x54x21	200
E165	1.600-2.600	20	0.50	1.25	0 to +55	100	50	54x54x21	200
E175	1.600-2.700	18	0.60	1.30	0 to +50	100	50	54x54x21	200
E170	1.600-2.800	19	0.60	1.26	0 to +50	100	50	54x54x21	200
D157	1.630-2.300	20	0.40	1.25	0 to +50	100	50	54x54x21	200
D1104	1.6465-1.6605	25	0.35	1.15	0 to +50	500	50	32x34x19	90
D115	1.650-1.850	20	0.50	1.25	0 to +50	500	50	32x34x19	90
D187	1.660-1.670	30	0.25	1.09	0 to +50	500	50	32x34x19	90
D194	1.700-1.800	20	0.30	1.25	0 to +50	500	50	32x34x19	90
D116	1.700-1.900	20	0.40	1.25	0 to +50	500	50	32x34x19	90
D117	1.700-2.000	20	0.50	1.25	0 to +50	500	50	32x34x19	90
D152	1.700-2.100	23	0.35	1.15	0 to +50	100	50	54x54x21	200
D156	1.700-2.100	20	0.50	1.25	0 to +50	250	50	41x42x20	123
E196	1.700-2.200	19	0.50	1.30	0 to +50	100	50	54x54x21	200

MTC

microwave technology corporation

microwave technology corporation

MODEL NO.	FREQUENCY GHz	ISOLATION dB [Min.]	INSERTION LOSS dB [Max.]	VSWR [Max.]	OPERATING TEMPERATURE °C	CIRCULATOR POWER [Watts]		DIMENSION [W x L x T] mm.	WEIGHT Grams
						Peak	Average		
E1103	1.700-2.200	20	0.40	1.25	0 to +50	250	50	41x42x20	123
E118	1.700-2.300	23	0.35	1.20	0 to +55	100	50	54x54x21	200
E131	1.700-2.300	20	0.50	1.22	0 to +70	250	50	41x42x20	123
E119	1.700-2.400	23	0.40	1.20	0 to +55	100	50	54x54x21	200
E129	1.700-2.700	20	0.50	1.25	0 to +55	100	50	54x54x21	200
E162	1.700-4.200	16	0.60	1.50	0 to +55	250	50	41x42x20	123
D134	1.800-1.900	25	0.30	1.20	0 to +60	500	50	32x34x19	90
D120	1.800-2.000	20	0.40	1.25	0 to +50	500	50	32x34x19	90
D121	1.800-2.100	20	0.50	1.25	0 to +50	500	50	32x34x19	90
D164	1.800-2.500	20	0.50	1.22	0 to +50	100	50	54x54x21	200
D136	1.805-1.880	25	0.30	1.20	0 to +60	500	50	32x34x19	90
D133	1.855-1.925	25	0.30	1.20	0 to +60	500	50	32x34x19	90
D1109	1.850-2.170	20	0.50	1.25	0 to +60	500	100	48x51x26	265
D197	1.90	30	0.30	1.09	0 to +60	500	100	38.1x38.1x26	-
E122	1.900-2.100	20	0.40	1.25	0 to +55	500	50	32x34x19	90
E113	1.900-2.200	20	0.40	1.20	0 to +55	500	50	32x34x19	90
E106	1.900-2.300	20	0.50	1.25	0 to +55	500	50	32x34x19	90
E160	1.900-2.300	23	0.35	1.15	0 to +55	250	50	41x42x20	123
E176	1.900-2.700	20	0.50	1.25	0 to +50	250	50	41x42x20	123
F181	1.900-4.100	17	0.60	1.40	0 to +50	250	50	41x42x20	123
D146	1.930-1.990	23	0.20	1.15	-20 to +70	500	50	38.1x38.1x19	185
E166	1.990-2.500	20	0.50	1.25	0 to +55	250	50	41x42x20	123
E107	2.000-2.300	20	0.40	1.25	0 to +55	500	50	32x34x19	90
E115	2.000-2.300	18	0.60	1.27	0 to +55	250	25	25x25x13	45
E185	2.000-2.300	18	0.70	1.35	0 to +55	500	50	32x34x19	90
E108	2.000-2.500	20	0.50	1.25	0 to +55	250	50	41x42x20	123
E164	2.000-2.700	23	0.35	1.15	0 to +55	250	50	41x42x20	123
E123	2.000-3.000	20	0.50	1.25	0 to +55	250	50	41x42x20	123
E185	2.000-2.300	18	0.70	1.35	0 to +50	250	25	32x34x19	90
F105	2.000-4.000	18	0.50	1.35	0 to +55	250	50	41x42x20	123
F180	2.000-4.200	17	0.60	1.40	0 to +55	250	50	41x42x20	123
E173	2.030GHz±30MHz	23	0.40	1.20	0 to +50	100	50	32x34x19	90
E124	2.100-2.300	20	0.40	1.25	0 to +55	500	50	32x34x19	90
E151	2.100-2.300	25	0.30	1.15	0 to +55	250	50	41x42x20	123
E109	2.100-2.400	20	0.40	1.25	0 to +55	500	50	32x34x19	90
E192	2.100-2.400	30	0.25	1.10	0 to +50	250	50	41x42x20	123
E188	2.100-2.500	20	0.40	1.25	0 to +50	250	50	41x42x20	123
E172	2.100-2.600	23	0.35	1.15	0 to +50	250	50	41x42x20	123
E195	2.110-2.170	20	0.30	1.22	-54 to +85	250	25	32x34x19	90
E1101	2.130-2.230	25	0.25	1.15	-54 to +85	250	25	32x34x19	90
E110	2.200-2.300	23	0.40	1.15	-54 to +85	250	25	32x34x19	90
E1100	2.200-2.300	20	0.30	1.25	0 to +55	250	25	25x25x13	45
E133	2.200-2.500	23	0.40	1.15	0 to +55	250	25	41x42x20	123
E111	2.300-2.500	23	0.50	1.15	-54 to +85	250	25	32x34x19	90
E121	2.300-2.500	20	0.40	1.25	0 to +55	250	25	25x25x13	45
E128	2.300-2.500	17	0.45	1.30	-40 to +55	500	50	25x29x18	60
E167	2.300-2.700	20	0.40	1.26	0 to +40	250	25	25x25x13	45
E168	2.300-2.700	23	0.40	1.25	-30 to +70	250	50	41x42x20	123
E126	2.300-3.100	20	0.40	1.25	0 to +55	250	50	41x42x20	123
E178	2.322-2.343	30	0.30	1.09	0 to +55	250	50	41x42x20	123
E189	2.350-2.550	25	0.30	1.12	0 to +55	250	25	25x25x13	45
E180	2.400-2.490	20	0.40	1.25	0 to +55	250	25	25x25x13	45
E186	2491GHz±10MHz	20	0.25	1.25	0 to +55	250	25	32x34x19	90
E1102	2.400-2.500	23	0.40	1.15	0 to +55	250	50	41x42x20	123
K1113	25835GHz±10MHz	25	0.35	1.15	-54 to +85	250	25	13x16x13	19
E117	2.500-2.900	20	0.40	1.25	0 to +55	250	25	25x25x13	45
E174	2.500-3.000	25	0.30	1.15	0 to +50	250	50	41x42x20	123
E116	2.500-3.300	19	0.50	1.30	0 to +55	250	25	25x25x13	45

MTC

microwave technology corporation

microwave technology corporation

MODEL NO.	FREQUENCY GHz	ISOLATION dB [Min.]	INSERTION LOSS dB [Max.]	VSWR [Max.]	OPERATING TEMPERATURE °C	CIRCULATOR POWER [Watts]		DIMENSION [W x L x T] mm.	WEIGHT Grams
						Peak	Average		
F106	2.500-3.600	20	0.40	1.25	0 to +55	250	25	32x34x19	90
E187	2656GHz±10MHz	20	0.25	1.25	0 to +55	250	25	32x34x19	90
F107	2.600-3.400	20	0.40	1.25	0 to +55	250	25	32x34x19	90
F108	2.600-5.200	18	0.50	1.35	0 to +55	250	25	32x34x19	90
F167	2.600-5.200	17	0.60	1.35	0 to +55	250	25	44x44x20	-
E183	2.700-2.900	20	0.40	1.20	0 to +55	250	25	25x25x13	45
E190	2.700-2.900	18	0.40	1.30	0 to +55	250	25	25x25x13	45
E197	2.700-3.100	18	0.50	1.28	0 to +60	250	25	25x25x13	45
E120	2.700-3.100	20	0.40	1.25	0 to +55	250	25	25x25x13	45
E134	2.700-3.100	20	0.40	1.25	0 to +50	250	50	41x42x20	123
E156	2.700-3.100	30	0.40	1.10	0 to +55	250	50	41x42x20	123
E153	2.700-3.200	20	0.40	1.25	0 to +55	250	25	32x34x19	90
G105	2.700-5.400	17	0.50	1.35	0 to +55	250	25	32x34x19	90
E184	2.700-3.300	20	0.40	1.20	0 to +50	250	25	32x34x19	90
E193	2.700-3.400	20	0.50	1.25	0 to +55	250	25	32x34x19	90
F109	2.800-3.500	20	0.40	1.25	0 to +55	250	25	32x34x19	90
F168	2.900-3.600	18	0.50	1.30	-54 to +85	250	25	32x34x19	90
F161	3.000-3.400	25	0.30	1.12	-54 to +85	250	25	32x34x19	90
F166	3.000-3.600	19	0.50	1.25	0 to +55	250	25	25x25x13	45
F170	3.000-3.600	20	0.40	1.25	-54 to +85	250	25	32x34x19	90
F115	3.000-4.000	20	0.40	1.25	0 to +55	250	25	32x34x19	90
F164	3.000-4.200	20	0.50	1.20	-54 to +85	250	25	32x34x19	90
F165	3.000-5.000	20	0.50	1.25	-54 to +85	250	25	32x34x19	90
G175	3.000-6.000	18	0.55	1.35	-54 to +85	250	25	25x29x18	50
F110	3.200-4.000	20	0.40	1.25	0 to +55	250	25	32x34x19	90
G168	3.300-4.900	20	0.40	1.25	-54 to +85	250	25	25x29x18	50
F176	3.300-4.900	20	0.50	1.25	-54 to +85	250	25	32x34x19	90
G170	3.300-6.600	18	0.60	1.35	-54 to +85	250	25	25x29x18	50
F178	3.400-3.900	23	0.30	1.15	-40 to +70	250	25	20x20x15	35
F162	3.400-3.600	20	0.50	1.25	0 to +55	250	25	25x25x13	45
F111	3.400-4.200	23	0.40	1.15	0 to +55	250	25	25x29x18	50
F179	3.400-4.200	20	0.40	1.20	-40 to +70	250	25	20x20x15	35
G155	3.400-4.600	20	0.40	1.25	-54 to +85	250	25	25x29x18	50
F172	3.400-4.900	20	0.50	1.25	-54 to +85	250	25	32x34x19	90
G166	3.400-6.500	18	0.50	1.35	-54 to +85	250	25	25x29x18	50
H194	3.400-7.750	16	0.60	1.40	-54 to +85	250	25	25x29x18	50
H195	3.400-8.700	14	0.80	1.50	-54 to +85	250	25	25x29x18	50
F130	3.450-4.450	22	0.40	1.15	0 to +55	250	25	25x29x18	50
F177	3.500-4.000	20	0.40	1.20	0 to +55	250	25	25x25x13	45
F113	3.500-4.200	23	0.40	1.15	0 to +55	250	25	25x29x18	50
F171	3.500-4.220	23	0.40	1.15	-54 to +85	250	25	25x29x18	50
F154	3.500-4.300	23	0.40	1.20	-54 to +85	250	25	25x29x18	50
G167	3.500-5.500	20	0.40	1.25	-54 to +85	250	25	25x29x18	50
G174	3.500-6.100	20	0.50	1.20	-54 to +85	250	25	25x29x18	50
F160	3.600-4.200	25	0.30	1.15	-54 to +85	250	25	25x29x18	50
G106	3.600-6.500	20	0.40	1.25	0 to +55	250	25	25x29x18	50
F114	3.625-4.200	25	0.30	1.15	-54 to +85	250	25	25x29x18	50
F174	3.625-4.250	23	0.35	1.15	-54 to +85	250	25	25x29x18	50
F112	3.700-4.200	25	0.30	1.15	-54 to +85	250	25	25x29x18	50
F155	3.700-4.200	25	0.30	1.15	-54 to +85	250	25	19x19x13	30
G121	3.700-4.700	20	0.40	1.25	-54 to +85	250	25	25x29x18	50
H153	3.700-8.300	17	0.60	1.35	-54 to +85	250	25	25x29x18	50
F169	3.800-4.300	25	0.35	1.15	-54 to +85	250	25	25x29x18	50
H1109	3.900-8.200	17	0.60	1.35	-54 to +85	250	25	25x29x18	50
G107	4.000-4.600	20	0.40	1.25	-54 to +85	250	25	25x29x18	50
G108	4.000-5.000	20	0.40	1.25	-54 to +85	250	25	25x29x18	50
G109	4.000-6.000	20	0.40	1.25	-54 to +85	250	25	25x29x18	50
H198	4.000-7.000	20	0.45	1.35	0 to +55	250	25	25x29x18	50

MTC

microwave technology corporation

microwave technology corporation

MODEL NO.	FREQUENCY GHz	ISOLATION dB [Min.]	INSERTION LOSS dB [Max.]	VSWR [Max.]	OPERATING TEMPERATURE °C	CIRCULATOR POWER [Watts]		DIMENSION [W x L x T] mm.	WEIGHT Grams
						Peak	Average		
H105	4.000-8.000	18	0.50	1.35	0 to +55	250	25	25x29x18	50
G117	4.200-4.400	20	0.40	1.25	-54 to +85	250	25	21x21x13	35
G118	4.200-4.400	26	0.30	1.20	-54 to +85	250	25	25X29X18	50
G110	4.200-4.500	25	0.40	1.15	-54 to +85	250	25	25x29x18	50
G164	4.200-5.000	25	0.40	1.15	-54 to +85	250	25	25x29x18	50
G111	4.200-5.500	25	0.40	1.15	-54 to +85	250	25	25x29x18	50
G122	4.400-5.000	20	0.40	1.25	-54 to +85	250	25	21x21x13	35
G180	4.400-5.000	23	0.30	1.15	-40 to +70	250	25	20x20x15	35
G112	4.400-5.500	25	0.40	1.15	-54 to +85	250	25	25x29x18	50
G165	4.400-5.500	20	0.30	1.20	-54 to +85	250	25	25x29x18	50
G113	4.400-6.500	20	0.40	1.25	-54 to +85	250	25	25x29x18	50
H184	4.500-7.000	20	0.40	1.25	-54 to +85	250	25	25x29x18	50
G172	4.600-4.800	25	0.30	1.12	-54 to +85	250	25	25x29x18	50
G179	4.700-9.400	14	0.95	1.50	-54 to +85	250	25	19x24x17	34
G156	4.855-5.355	26	0.30	1.10	0 to +55	250	25	32x34x19	90
G162	4.905-4.985	20	0.40	1.20	-54 to +85	250	25	13x16x13	19
G173	4.900-6.650	19	0.50	1.28	-54 to +85	250	25	13x16x13	19
G182	5.000-5.100	20	0.40	1.25	-54 to +85	250	25	25x29x18	50
G126	5.000-5.600	23	0.40	1.15	-54 to +85	250	25	25x29x18	50
G114	5.000-6.000	23	0.40	1.15	-54 to +85	250	25	25x29x18	50
H176	5.000-7.000	23	0.40	1.15	-54 to +85	250	25	25x29x18	50
H107	5.000-7.000	20	0.40	1.25	-54 to +85	250	25	25x29x18	50
H106	5.000-8.000	20	0.50	1.35	-54 to +85	250	25	25x29x18	50
H193	5.000-8.200	20	0.60	1.30	-54 to +85	250	25	25x29x18	50
I159	5.00-10.00	17	0.60	1.35				19x24x17	
G160	5.200-6.000	20	0.50	1.25	-54 to +85	250	25	19x24x17	50
H188	5.200-8.200	19	0.50	1.28	-54 to +85	250	25	25x29x18	50
G159	5.250-5.350	26	0.30	1.10	-54 to +85	250	25	25x29x18	50
G115	5.300-6.000	23	0.40	1.15	-54 to +85	250	25	25x29x18	50
H189	5.380-8.200	19	0.45	1.28	-54 to +85	250	25	25x29x18	50
G158	5.400-5.530	23	0.40	1.10	-54 to +85	250	25	25x29x18	50
G169	5.400-5.900	20	0.45	1.25	-54 to +85	250	25	25x29x18	50
G184	5.400-5.900	20	0.30	1.20	-54 to +85	250	25	19x24x17	34
H185	5.400-6.000	20	0.40	1.25	-54 to +85	250	25	19x24x17	34
H162	5.500-6.500	20	0.40	1.25	-54 to +85	250	25	25x29x18	50
H164	5.500-6.500	18	0.65	1.35	-54 to +85	250	25	13x16x13	19
H172	5.500-6.500	25	0.30	1.15	-54 to +85	250	25	25x29x18	50
H175	5.500-6.500	30	0.30	1.15	-54 to +85	250	25	25x29x18	50
G161	5.600-6.200	23	0.40	1.15	-54 to +85	250	25	25x29x18	50
H169	5.600-6.200	19	0.55	1.27	-54 to +85	250	25	13x16x13	19
G181	5.600-6.500	23	0.40	1.15	-40 to +70	250	25	20x20x15	35
H192	5.700-5.900	22	0.30	1.15	-54 to +85	250	25	13x16x13	19
H108	5.700-6.800	20	0.40	1.25	-54 to +85	250	25	25x29x18	50
H183	5.775-6.175	23	0.40	1.15	-54 to +85	250	25	25x29x18	50
H127	5.800-6.400	19	0.55	1.27	0 to +55	250	25	13x16x13	19
H181	5.800-6.425	20	0.35	1.25	-54 to +85	250	25	19x24x17	34
H109	5.800-6.500	20	0.35	1.25	-54 to +85	250	25	19x24x17	34
H155	5.800-6.500	23	0.40	1.20	-54 to +85	250	25	25x29x18	50
H154	5.800-7.000	23	0.40	1.20	-54 to +85	250	25	25x29x18	50
H124	5.800-7.200	20	0.40	1.25	-54 to +85	250	25	19x24x17	34
H110	5.800-8.600	20	0.40	1.25	-54 to +85	250	25	19x24x17	34
H163	5.845-6.500	23	0.25	1.15	-54 to +85	250	25	25x29x18	50
H255	5.845-6.560	23	0.25	1.15	-54 to +85	250	25	25x29x18	50
G186	5.850-5.925	20	0.40	1.05	-54 to +85	250	25	19x24x17	34
G171	5.850-6.400	23	0.35	1.15	-54 to +85	250	25	25x29x18	50
H161	5.850-6.425	19	0.55	1.27	-54 to +85	250	25	13x16x13	19
H173	5.850-6.425	25	0.30	1.12	-54 to +85	250	25	25x29x18	50
H167	5.850-6.650	23	0.40	1.20	-54 to +85	250	25	25x29x18	50

MTC

microwave technology corporation

microwave technology corporation

MODEL NO.	FREQUENCY GHz	ISOLATION dB [Min.]	INSERTION LOSS dB [Max.]	VSWR [Max.]	OPERATING TEMPERATURE °C	CIRCULATOR POWER [Watts]		DIMENSION [W x L x T] mm.	WEIGHT Grams
						Peak	Average		
H170	5.850-6.650	23	0.30	1.15	-54 to +85	250	25	19x24x17	34
H165	5.850-7.100	23	0.40	1.22	-54 to +85	250	25	19x24x17	34
G185	5.900-6.100	25	0.35	1.15	-54 to +85	250	25	19x24x17	34
H122	5.900-6.400	20	0.40	1.25	-54 to +85	250	25	19x24x17	34
G178	5.900-6.500	23	0.35	1.15	-40 to +70	250	25	20x20x15	35
H187	5.900-8.200	20	0.40	1.20	-54 to +85	250	25	19x24x17	34
H199	5.925-6.425	25	0.30	1.15	-54 to +85	250	25	25x29x18	50
H111	6.000-8.000	20	0.40	1.25	-54 to +85	250	25	19x24x17	34
H112	6.000-9.000	20	0.40	1.25	-54 to +85	250	25	19x24x17	34
J180	6.000-12.00	17	0.70	1.40	-54 to +85	250	25	16x21x17	26
H119	6.400-7.200	20	0.40	1.25	-54 to +85	250	25	19x24x17	34
H1101	6.400-7.200	23	0.35	1.15	-40 to +70	250	25	20x20x15	35
I136	6.400-11.70	18	0.50	1.35	-54 to +85	250	25	16x21x17	26
J170	6.400-12.80	15	0.80	1.40	-54 to +85	250	25	16x21x17	26
H1106	6.425-6.570	23	0.40	1.05	-54 to +85	250	25	19x24x17	34
H120	6.435-6.475	20	0.40	1.25	-54 to +85	250	25	19x24x17	34
J183	6.500-10.00	18	0.60	1.35	-54 to +85	250	25	16x21x17	26
H113	6.550-7.850	20	0.40	1.25	-54 to +85	250	25	19x24x17	34
H1105	6.570-6.870	23	0.40	1.05	-54 to +85	250	25	19x24x17	34
H177	6.600-7.100	23	0.35	1.20	-54 to +85	250	25	16x21x17	26
H179	6.600-7.900	21	0.40	1.20	-54 to +85	250	25	16x21x17	26
H178	6.700-6.900	25	0.35	1.12	-54 to +85	250	25	19x24x17	34
H180	6.700-7.000	25	0.40	1.15	-54 to +85	250	25	19x24x17	34
H1103	6.800-8.200	23	0.35	1.15	-54 to +85	250	25	19x24x17	34
H152	6.800-8.800	20	0.40	1.25	-54 to +85	250	25	19x24x17	34
H1107	6.870-7.125	23	0.40	1.05	-54 to +85	250	25	19x24x17	34
I106	7.000-11.00	20	0.40	1.25	-54 to +85	250	25	19x24x17	34
J168	7.000-12.00	19	0.60	1.25	-54 to +85	250	25	16x21x17	26
J178	7.000-12.00	19	0.50	1.25	-54 to +85	250	25	19x22x13	26
H174	7.000-7.500	23	0.35	1.15	-54 to +85	250	25	19x24x17	34
H114	7.000-8.500	20	0.40	1.25	-54 to +85	250	25	19x24x17	34
H168	7.000-8.500	20	0.35	1.25	-54 to +85	250	25	19x24x17	34
I105	7.000-9.000	20	0.40	1.25	-54 to +85	250	25	19x24x17	34
J193	7.000-13.00	16	0.80	1.45	-54 to +85	250	25	16x21x17	26
I141	7.050-10.00	20	0.40	1.20	-54 to +85	250	25	19x24x17	34
H142	7.100-7.700	25	0.25	1.15	-54 to +85	250	25	19x24x17	34
H115	7.100-7.800	20	0.40	1.25	-54 to +85	250	25	19x24x17	34
I144	7.100-8.500	23	0.30	1.15	-40 to +70	250	25	20x20x15	35
H116	7.100-8.500	20	0.40	1.25	-54 to +85	250	25	19x24x17	34
H1100	7.100-7.900	23	0.30	1.15	-40 to +70	250	25	20x20x15	35
H186	7.145-7.235	22	0.25	1.20	-54 to +85	250	25	19x24x17	34
I147	7.200-8.400	20	0.40	1.15	-54 to +85	250	25	19x24x17	34
H118	7.250-7.750	20	0.40	1.25	-54 to +85	250	25	19x24x17	34
H182	7.250-8.000	20	0.40	1.25	-54 to +85	250	25	19x24x17	34
H166	7.250-8.400	23	0.40	1.22	-54 to +85	250	25	19x24x17	34
I110	7.400-7.900	23	0.35	1.15	-54 to +85	250	25	16x21x17	26
H1108	7.425-7.750	23	0.40	1.05	-54 to +85	250	25	19x24x17	34
I133	7.425-10.68	19	0.60	1.25	-54 to +85	250	25	16x21x17	26
K197	7.500-18.00	15	1.00	1.60	-54 to +85	250	25	16x21x17	26
I137	7.500-8.300	23	0.35	1.15	-54 to +85	250	25	19x24x17	34
I107	7.500-9.000	20	0.40	1.25	-54 to +85	250	25	19x24x17	34
I158	7.600-8.600	20	0.50	1.25				16x21x17	
I132	7.700-8.300	25	0.30	1.12	-54 to +85	250	25	19x24x17	34
H1102	7.700-8.500	23	0.35	1.15	-40 to +70	250	25	20x20x15	35
I154	7.800-11.700	18	0.50	1.25	-54 to +85	250	25	16x21x17	26
H1104	7.900-8.100	25	0.35	1.15	-54 to +85	250	25	19x24x17	34
I109	7.900-8.400	20	0.40	1.25	-54 to +85	250	25	19x24x17	34
I135	7.900-8.400	23	0.35	1.15	-54 to +85	250	25	16x21x17	26

MTC

microwave technology corporation

microwave technology corporation

MODEL NO.	FREQUENCY GHz	ISOLATION dB [Min.]	INSERTION LOSS dB [Max.]	VSWR [Max.]	OPERATING TEMPERATURE °C	CIRCULATOR POWER [Watts]		DIMENSION [W x L x T] mm.	WEIGHT Grams
						Peak	Average		
I139	7.900-8.400	22	0.25	1.20	-54 to +85	250	25	16x21x17	26
I152	7.900-10.200	20	0.50	1.25	-54 to +85	250	25	16x21x17	26
I108	8.000-11.00	20	0.50	1.25	-54 to +85	250	25	16x21x17	26
J109	8.000-12.00	20	0.50	1.25	-54 to +85	250	25	16x21x17	26
J110	8.000-12.40	20	0.50	1.25	-54 to +85	250	25	16x21x17	26
J111	8.000-16.00	17	0.70	1.35	-54 to +85	250	25	16x21x17	26
K105	8.000-18.00	15	0.90	1.50	-54 to +85	250	25	16x21x17	26
I142	8.000-8.500	25	0.30	1.12	-54 to +85	250	25	19x24x17	34
J173	8.200-12.40	20	0.50	1.25	-54 to +85	250	25	16x21x17	26
I122	8.300-8.900	23	0.35	1.15	-54 to +85	250	25	16x21x17	26
I113	8.400-10.00	23	0.50	1.15	-54 to +85	250	25	16x21x17	26
I112	8.400-9.700	23	0.50	1.15	-54 to +85	250	25	16x21x17	26
I123	8.450-8.505	30	0.30	1.10	-20 to +50	250	25	16x21x17	26
I130	8.500-10.50	20	0.40	1.15	-54 to +85	250	25	19x24x17	34
J182	8.500-11.00	23	0.30	1.15	-54 to +85	250	25	13x16x13	19
I148	8.800-9.000	23	0.40	1.15	-54 to +85	250	25	13x16x13	19
I114	9.000-10.00	23	0.50	1.15	-54 to +85	250	25	16x21x17	26
J115	9.000-12.00	20	0.50	1.25	-54 to +85	250	25	16x21x17	26
K106	9.000-17.00	18	0.70	1.30	-54 to +85	250	25	16x21x17	26
K107	9.000-18.00	17	0.80	1.35	-54 to +85	250	25	16x21x17	26
I134	9.100-9.300	25	0.35	1.12	-54 to +85	250	25	16x21x17	26
I131	9.100-9.500	25	0.40	1.15	-54 to +85	250	25	16x21x17	26
I150	9.100-9.500	23	0.40	1.15	-54 to +85	250	25	13x16x13	19
I149	9.200-9.400	23	0.35	1.15	-54 to +85	250	25	13x16x13	19
I115	9.200-10.20	23	0.50	1.15	-54 to +85	250	25	16x21x17	26
I146	9.300-10.30	25	0.35	1.15	-54 to +85	250	25	13x16x13	19
I151	9.400-9.440	22.5	0.40	1.15	-54 to +85	250	25	13x16x13	19
I145	9.400 +/-50MHz	25	0.40	1.12	-54 to +85	250	25	16x21x17	26
I140	9.400-9.800	23	0.40	1.15	-54 to +85	250	25	16x21x17	26
I155	9.500-9.800	25	0.50	1.20	-54 to +85	250	25	13x16x13	19
J136	9.500-10.50	23	0.40	1.15	-54 to +85	250	25	13x16x13	19
J116	9.500-12.40	23	0.50	1.20	-54 to +85	250	25	16x21x17	26
J117	9.600-10.20	23	0.50	1.20	-54 to +85	250	25	16x21x17	26
J137	9.600-10.20	23	0.40	1.15	-54 to +85	250	25	13x16x13	19
J118	9.700-12.00	20	0.50	1.25	-54 to +85	250	25	16x21x17	26
I156	9.900-10.20	25	0.50	1.20	-54 to +85	250	25	13x16x13	19
J191	9.900-12.20	23	0.40	1.20	-54 to +85	250	25	13x16x13	19
J144	10.00-11.00	23	0.35	1.15	-54 to +85	250	25	13x16x13	19
J171	10.00-11.30	23	0.40	1.15	-54 to +85	250	25	13x16x13	19
J149	10.00-12.00	23	0.35	1.15	-54 to +85	250	25	13x16x13	19
J179	10.00-13.00	23	0.35	1.20	-54 to +85	250	25	13x16x13	19
J153	10.00-14.00	23	0.35	1.15	-54 to +85	250	25	13x16x13	19
J147	10.00-15.00	22	0.45	1.20	-54 to +85	250	25	13x16x13	19
J174	10.00-15.00	20	0.40	1.20	-54 to +85	250	25	13x16x13	19
K108	10.00-18.00	18	0.70	1.35	-54 to +85	250	25	16x21x17	26
J187	10.10-11.70	23	0.35	1.15	-40 to +70	250	25	20x20x15	35
J166	10.15-10.65	23	0.35	1.15	-54 to +85	250	25	13x16x13	19
J142	10.20-10.80	25	0.35	1.15	-54 to +85	250	25	13x16x13	19
J152	10.20-12.40	23	0.35	1.15	-54 to +85	250	25	13x16x13	19
J159	10.20-12.70	23	0.35	1.15	-54 to +85	250	25	13x16x13	19
J141	10.20-12.75	23	0.35	1.15	-54 to +85	250	25	13x16x13	19
J189	10.25-10.45	25	0.35	1.05	-54 to +85	250	25	13x16x13	19
J135	10.50-11.50	23	0.35	1.15	-54 to +85	250	25	13x16x13	19
J163	10.50-15.40	20	0.50	1.22	-54 to +85	250	25	13x16x13	19
J161	10.525 +/- 50MHz	23	0.35	1.15	-54 to +85	250	25	10.1x13.8x9.8	12
J190	10.55-10.68	25	0.35	1.05	-54 to +85	250	25	13x16x13	19
J192	10.60-14.60	22	0.45	1.20	-54 to +85	250	25	13x16x13	19
J131	10.70-11.70	23	0.35	1.15	-54 to +85	250	25	13x16x13	19

MTC

microwave technology corporation

microwave technology corporation

MODEL NO.	FREQUENCY GHz	ISOLATION dB [Min.]	INSERTION LOSS dB [Max.]	VSWR [Max.]	OPERATING TEMPERATURE °C	CIRCULATOR POWER [Watts]		DIMENSION [W x L x T] mm.	WEIGHT Grams
						Peak	Average		
J186	10.70-11.70	23	0.30	1.15	-54 to +85	250	25	13x16x13	19
J167	10.70-12.70	30	0.40	1.15	-54 to +85	250	25	16x21x17	26
J169	10.70-15.40	20	0.45	1.20	-54 to +85	250	25	13x16x13	19
J160	10.80-12.90	23	0.35	1.15	-54 to +85	250	25	13x16x13	19
J175	10.80-12.90	23	0.35	1.15	-54 to +85	250	25	16x21x17	26
J139	10.95-12.75	23	0.35	1.15	-54 to +85	250	25	13x16x13	19
J188	11.00-15.00	22	0.45	1.20	-54 to +85	250	25	13x16x13	19
K110	11.00-18.00	18	0.70	1.35	-54 to +85	250	25	16x21x17	26
J140	11.70-12.30	23	0.35	1.15	-54 to +85	250	25	13x16x13	19
J132	11.70-12.70	23	0.35	1.15	-54 to +85	250	25	13x16x13	19
K168	11.70-14.50	23	0.35	1.15	-54 to +85	250	25	13x16x13	19
K149	12.00-14.00	23	0.35	1.15	-54 to +85	250	25	13x16x13	19
J162	12.00-16.00	20	0.40	1.15	-54 to +85	250	25	13x16x13	19
K1119	12.00-18.00	20	0.70	1.25	-54 to +85	250	25	16x21x17	26
K1118	12.00-20.00	16	0.80	1.40	-54 to +85	250	25	13x16x13	19
K1112	12.103+/-10 MHz	25	0.35	1.15	-54 to +85	250	25	13x16x13	19
J133	12.20-13.20	23	0.40	1.15	-54 to +85	250	25	13x16x13	19
J143	12.25-12.65	23	0.35	1.15	-54 to +85	250	25	13x16x13	19
J172	12.25-12.75	25	0.35	1.15	-54 to +85	250	25	13x16x13	19
K193	12.25-14.50	23	0.35	1.15	-54 to +85	250	25	13x16x13	19
K152	12.40-15.00	23	0.35	1.15	-54 to +85	250	25	13x16x13	19
K169	12.40-18.00	19	0.60	1.30	-54 to +85	250	25	13x16x13	19
K144	12.496-12.696	25	0.35	1.15	-54 to +85	250	25	13x16x13	19
K131	12.50-13.50	23	0.50	1.15	-54 to +85	250	25	13x16x13	19
J134	12.60-13.20	25	0.50	1.15	-54 to +85	250	25	13x16x13	19
J154	12.60-13.30	23	0.35	1.15	-54 to +85	250	25	13x16x13	19
J181	12.70-13.00	20	0.50	1.20	-54 to +85	250	25	16x21x22	26
K132	12.70-13.30	25	0.35	1.15	-54 to +85	250	25	13x16x13	19
J185	12.70-13.30	23	0.30	1.15	-54 to +85	250	25	13x16x13	19
K1105	12.70-13.30	20	0.35	1.20	-54 to +85	250	25	13x16x13	19
K1116	12.70-15.00	20	0.50	1.20	-54 to +85	250	25	13x16x13	19
K199	12.70-15.40	23	0.40	1.15	-54 to +85	250	25	16x21x17	26
K186	12.70-15.50	20	0.50	1.29	-54 to +85	250	25	13x16x13	19
K1101	12.70-18.00	20	0.50	1.25	-54 to +85	250	25	13x16x13	19
K195	12.70-19.70	16	0.60	1.35	-54 to +85	250	25	16x21x17	26
K1123	12.75-14.50	23	0.40	1.20	-54 to +85	250	25	13x16x13	19
K1123	12.75-14.50	23	0.40	1.20	-54 to +85	250	25	13x16x13	19
K112	12.75-18.40	20	0.50	1.25	-54 to +85	250	25	13x16x13	19
K136	12.80-13.50	23	0.35	1.15	-54 to +85	250	25	13x16x13	19
K1122	13.00-14.50	23	0.40	1.15	-54 to +85	250	25	13x16x13	19
K118	13.00-16.00	20	0.50	1.25	-54 to +85	250	25	16x21x17	26
K1108	13.40-14.00	23	0.35	1.15	-54 to +85	250	25	16x21x17	26
K134	13.40-14.00	25	0.35	1.15	-54 to +85	250	25	13x16x13	19
K142	13.40-14.00	23	0.35	1.15	-54 to +85	250	25	13x16x13	19
K154	13.50-14.50	23	0.35	1.15	-54 to +85	250	25	13x16x13	19
K1111	13.75-13.76	25	0.35	1.15	-54 to +85	250	25	13x16x13	19
K135	14.00-14.50	25	0.35	1.15	-54 to +85	250	25	13x16x13	19
K109	14.00-14.50	23	0.35	1.15	-54 to +85	250	25	13x16x13	19
K171	14.00-16.00	23	0.40	1.15	-54 to +85	250	25	13x16x13	19
K172	14.00-16.50	23	0.40	1.15	-54 to +85	250	25	13x16x13	19
K133	14.10-15.30	25	0.35	1.15	-54 to +85	250	25	13x16x13	19
K123	14.50-15.35	25	0.35	1.15	-54 to +85	250	25	13x16x13	19
K1125	14.50-15.50	23	0.40	1.15	-54 to +85	250	25	13x16x13	19
K1117	15.00-16.00	23	0.35	1.15	-54 to +85	250	25	13x16x13	19
K173	15.00-18.00	23	0.40	1.15	-54 to +85	250	25	13x16x13	19
K1130	15.00-21.00	14	1.00	1.50	-54 to +85	250	25	16x21x17	26
K1124	15.20-18.30	20	0.60	1.22	-54 to +85	250	25	13x16x13	19
K174	15.50-16.60	25	0.35	1.15	-54 to +85	250	25	13x16x13	19

MTC

microwave technology corporation

microwave technology corporation

MODEL NO.	FREQUENCY GHz	ISOLATION dB [Min.]	INSERTION LOSS dB [Max.]	VSWR [Max.]	OPERATING TEMPERATURE °C	CIRCULATOR POWER [Watts]		DIMENSION [W x L x T] mm.	WEIGHT Grams
						Peak	Average		
K187	15.70-18.40	20	0.50	1.25	-54 to +85	250	25	13x16x13	19
K190	15.90-16.50	20	0.30	1.50	-54 to +85	250	25	16x21x17	26
K175	16.00-18.00	25	0.40	1.15	-54 to +85	250	25	13x16x13	19
K198	16.00-19.00	20	0.55	1.25	-54 to +85	250	25	13x16x13	19
K139	16.70-17.30	25	0.35	1.15	-54 to +85	250	25	13x16x13	19
K1131	16.70-18.60	20	0.50	1.20	-54 to +85	250	25	13x16x13	19
K137	17.00-18.50	25	0.40	1.15	-54 to +85	250	25	13x16x13	19
K188	17.00-18.50	23	0.40	1.15	-54 to +85	250	25	13x16x13	19
K1128	17.00-19.00	20	0.50	1.20	-54 to +85	250	25	13x16x13	19
K157	17.00-20.00	23	0.40	1.15	-54 to +85	250	25	13x16x13	19
K1126	17.00-21.00	18	0.60	1.30	-54 to +85	250	25	13x16x13	19
K184	17.00-22.00	18	0.70	1.35	-54 to +85	250	25	13x16x13	19
K176	17.30-18.10	25	0.40	1.15	-54 to +85	250	25	13x16x13	19
K155	17.30-18.30	25	0.40	1.15	-54 to +85	250	25	13x16x13	19
K189	17.30-18.40	25	0.40	1.15	-54 to +85	250	25	13x16x13	19
K196	17.30-23.60	19	0.60	1.25	-54 to +85	250	25	13x16x13	19
K158	17.70-19.70	23	0.40	1.15	-54 to +85	250	25	13x16x13	19
K159	17.70-20.20	23	0.40	1.15	-54 to +85	250	25	13x16x13	19
K1106	17.70-21.20	20	0.60	1.25	-54 to +85	250	25	13x16x13	19
K194	17.70-26.50	14	1.00	1.50	-54 to +85	250	25	13x16x13	19
K160	18.00-22.00	21	0.60	1.20	-54 to +85	250	25	13x16x13	19
K1109	18.00-26.00	14	1.00	1.50	-54 to +85	250	25	13x16x13	19
K119	18.40-18.70	24	0.35	1.20	-54 to +85	250	25	16x21x17	26
K180	18.90-22.05	23	0.50	1.20	-54 to +85	250	25	13x16x13	19
K161	19.00-21.00	23	0.50	1.15	-54 to +85	250	25	13x16x13	19
K162	19.00-22.00	21	0.60	1.20	-54 to +85	250	25	13x16x13	19
K192	19.00-23.00	20	0.70	1.25	-54 to +85	250	25	13x16x13	19
K1107	19.50-21.20	23	0.50	1.15	-54 to +85	250	25	13x16x13	19
K163	20.00-21.50	25	0.50	1.15	-54 to +85	250	25	13x16x13	19
K164	20.00-22.00	23	0.50	1.20	-54 to +85	250	25	13x16x13	19
K165	20.00-23.00	20	0.60	1.25	-54 to +85	250	25	13x16x13	19
K1114	20.00-24.00	17	0.80	1.35	-54 to +85	250	25	13x16x13	19
K191	20.20-21.20	23	0.50	1.20	-54 to +85	250	25	13x16x13	19
K1100	21.20-23.60	20	0.70	1.25	-54 to +85	250	25	13x16x13	19
K156	21.30-23.60	20	0.70	1.25	-54 to +85	250	25	13x16x13	19
K166	22.50-24.50	20	0.80	1.50	-54 to +85	250	25	13x16x13	19
K182	22.90-24.10	20	0.70	1.25	-54 to +85	250	25	13x16x13	19
K583	24.00-26.20	20	0.70	1.25	-54 to +85	250	25	13x16x13	19
K1121	24.50-26.50	19	0.70	1.27	-54 to +85	250	25	13x16x13	19
K1113	25.835 +/- 0.01	25	0.35	1.15	-54 to +85	250	25	13x16x13	19

NOTE :

- Standard Connector SMA - Type
- Isolator Termination 1W
- Finished : Black Painted

MTC

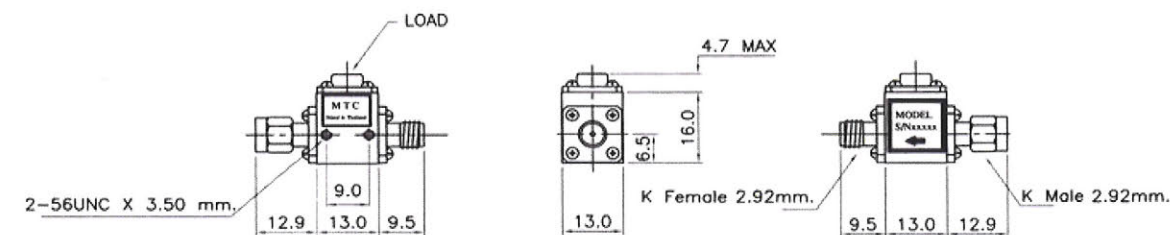
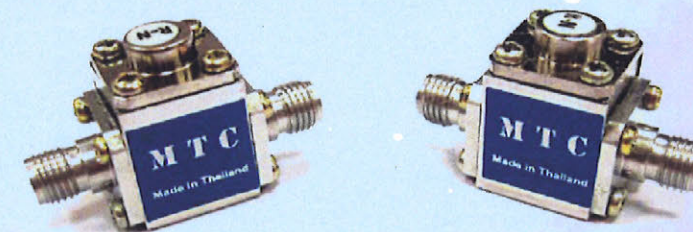
microwave technology corporation

microwave technology corporation

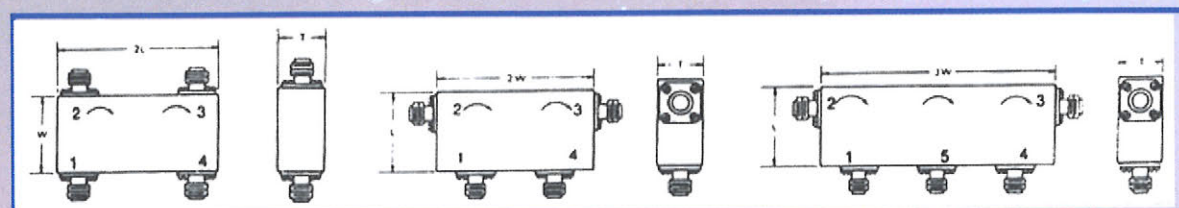
MODEL NO.	FREQUENCY GHz	ISOLATION dB [Min.]	INSERTION LOSS dB [Max.]	VSWR [Max.]	OPERATING TEMPERATURE °C	CIRCULATOR POWER [Watts]		DIMENSION [W x L x T] mm.	WEIGHT Grams
						Peak	Average		
K5139	25.00-27.40	20	1.0	1.35	-10 to +60	250	25	13x16x13	19
K5150	25.50-27.50	20	1.0	1.25	-54 to +85	250	25	13x16x13	19
K5154	26.00-40.00	15	1.20	1.43	+10 to +40	250	25	13x16x13	19
K5156	26.50-40.00	14	1.0	1.50	0 to +50	250	25	13x16x13	19
K5145	27.00-31.00	20	1.10	1.35	-10 to +60	250	25	13x16x13	19
K5141	27.00-31.50	17	1.30	1.30	-10 to +50	250	25	13x16x13	19
K5143	27.50-30.50	20	0.70	1.25	-20 to +70	250	25	13x16x13	19
K5157	29.00-32.00	20	1.10	1.35	-30 to +70	250	25	13x16x13	19
K5160	31.00-35.00	20	1.30	1.30	-30 to +70	250	25	13x16x13	19
K5168	37.00-38.00	20	1.0	1.50	-20 to +60	250	25	13x16x13	19
K5175	25.00-28.00	20	1.10	1.30	-10 to +60	250	25	13x16x13	19
K5176	30.00-33.00	20	1.10	1.30	-10 to +60	250	25	13x16x13	19
K5181	26.50-31.00	18	1.40	1.25	0 to +50	250	25	13x16x13	19
K5190	25.00-27.50	20	1.0	1.30	0 to +50	250	25	13x16x13	19
K5193	27.60-29.10	20	1.10	1.20	-20 to +70	250	25	13x16x13	19
K5200	34.76-36.76	20	0.70	1.25	-20 to +70	250	25	13x16x13	19
K5210	20.20-31.00	15	1.10	1.45	-10 to +60	250	25	13x16x13	19
K5212	26.20-27.00	20	0.80	1.25	0 to +60	250	25	13x16x13	19
K5220	27.50-28.50	20	1.0	1.25	-10 to +60	250	25	13x16x13	19
L503	26.50-32.00	20	1.20	1.25	-30 to +60	250	25	13x16x13	19
L507	27.50-30.50	20	0.80	1.22	-10 to +60	250	25	13x16x13	19

* CONNECTOR K 2.92mm.

* FINISH NICKLE PLATED



MULTI-PORT ISOLATORS & CIRCULATORS

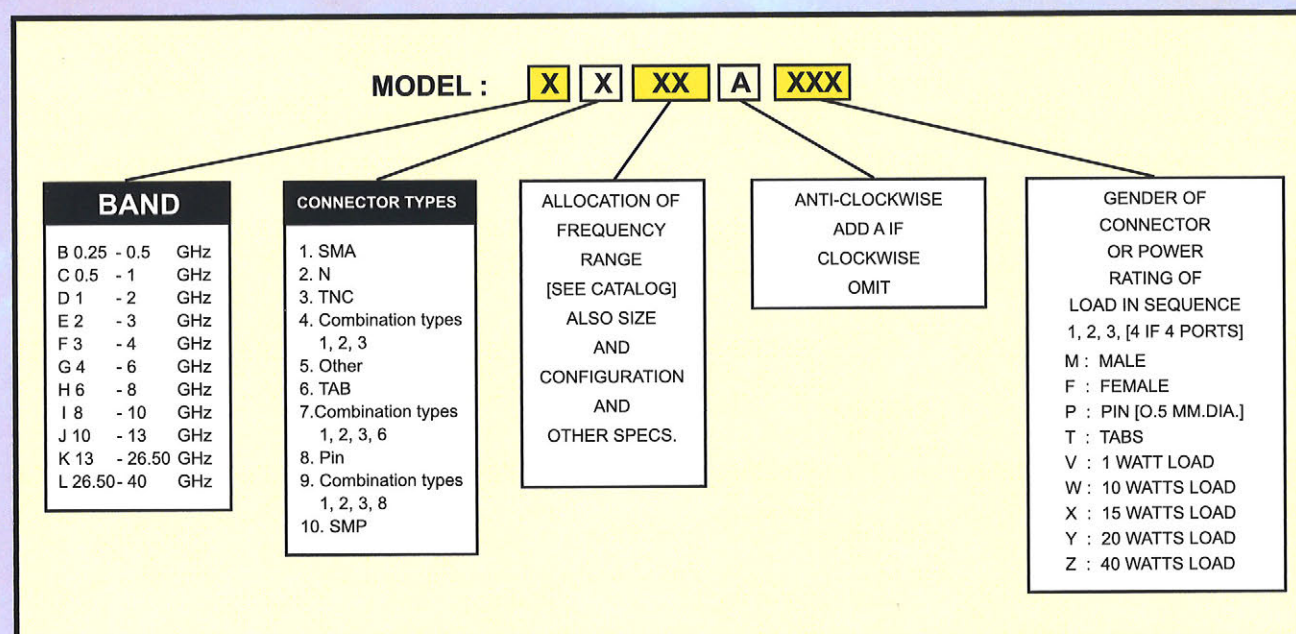


4-PORT
H-CONFIGURATION

4-PORT
T-CONFIGURATION

5-PORT

Multi-port Isolators & Circulators are available in all the frequency ranges. High isolation is obtained by combining 2 or more junctions in to a single package. Load termination can be substituted for any of the connectors in the above drawings.



GENERAL INFORMATION

SPECIAL ORDERS

Enquires are invited for other frequency range not listed or for more stringent thermal, shock and vibration conditions.

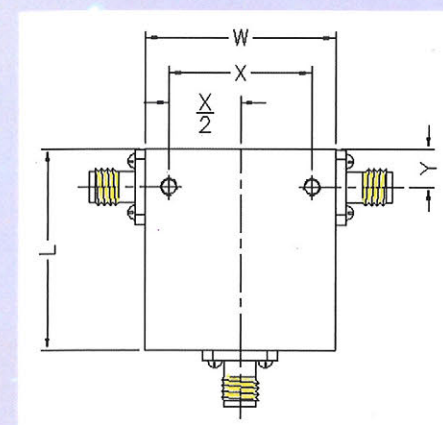
Full magnetic shielding and EMI shielding are available on special order.

Phase matched units are available

WARRANTY

MTC Ferrite Products are warranted to be free of defects in workmanship and material and to comply with applicable operating specifications for a period of one year from date of shipment

MOUNTING HOLES FPR STANDARD ISOLATORS & CIRCULATORS



W mm.	X mm.	Y mm.	Screw mm.
70	50	10	3
54	40	10	3
52	40	26*	3
48	40	13	3
41	25	6.5	3
35	27	9.7	3
32	24	6.5	3
25	19	6.5	2
21L	-	6.5	-
20L	-	6.5	-
19	11	6.5	2
16	10	6.5	2
13L	-	-	-

All thread depths are 4 mm. minimum

Except W = 52 mm., L = 25 mm.

T (Thickness) = 13 mm., depth is 3.0 mm.

* Mounting holes are not in line with connectors

⊥ Standard units are not supplied with mounting holes

NOTE : Different mounting options are available such as

* Through holes

* Tapped holes on side faces

* Tapped holes on top bottom face



Microwave Technology Corporation

DROP IN ISOLATOR & CIRCULATOR

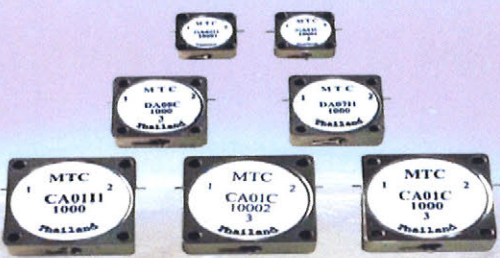
MTC offer a wide range of narrow and wide bandwidth RF and microwave isolators and circulators product in Coaxial and Drop-in configurations that extend from 200 MHz to 40 GHz frequency range. Customer can select from the Products listed below or to send us your requirements so we can meet your needs better.

- Standard Isolator 1 Watt , Forward power 25 to 500 Watts and Reverse power 5 to 100 watts available
- Neodymium (NdFe B) free
- In - house customer design engineering
- Custom Surface Mount , Flange Mount packaging available
- Contact factory for custom requirement

Model No.		Frequency	Isolation	Insertion Loss	VSWR	Operating Temp.	Circulators Power(Watts)		Dimension	Weight	Drawing
Isolators	Circulators	(GHz)	dB(Min)	dB(Max)	(Max)	deg. C	Peak	Average	(WxLxT)mm.	Grams	Circulator & Isolator
CA0111	CA01C	0.790-0.860	18	0.5	1.30	-40 to +85	500	100	25.4x25.4x7.62	30	DC&DI
CA0211	CA02C	0.860-0.960	20	0.5	1.25	-40 to +85	500	100	25.4x25.4x7.62	30	DC&DI
CA0311	CA03C	0.869-0.894	23	0.3	1.15	-40 to +85	500	100	25.4x25.4x7.62	30	DC&DI
CA0411	CA04C	0.890-0.960	20	0.4	1.25	-40 to +85	500	100	25.4x25.4x7.62	30	DC&DI
CA0511	CA05C	0.935-0.960	23	0.3	1.15	-40 to +85	500	100	25.4x25.4x7.62	30	DC&DI
DA0111	DA01C	0.960-1.215	17	0.6	1.35	-40 to +85	500	100	25.4x25.4x7.62	30	DC&DI
DA0211	DA02C	1.200-1.400	20	0.4	1.25	-40 to +85	500	100	25.4x25.4x7.62	30	DC&DI
DA0311	DA03C	1.400-1.600	20	0.4	1.25	-40 to +85	500	100	25.4x25.4x7.62	30	DC&DI
DA0411	DA04C	1.500-1.700	20	0.4	1.25	-40 to +85	500	100	25.4x25.4x7.62	30	DC&DI
DA0511	DA05C	1.600-1.680	23	0.3	1.15	-40 to +85	500	100	25.4x25.4x7.62	30	DC&DI
DA0611	DA06C	1.700-1.900	20	0.4	1.25	-40 to +85	500	100	25.4x25.4x7.62	30	DC&DI
DA0711	DA07C	1.805-1.880	23	0.3	1.15	-40 to +85	500	50	19.05x19.05x6.35	15	EC&EI
DA0811	DA08C	1.850-1.990	20	0.4	1.25	-40 to +85	500	50	19.05x19.05x6.35	15	EC&EI
EA0111	EA01C	1.950-2.200	20	0.5	1.25	-40 to +85	500	50	19.05x19.05x6.35	15	EC&EI
EA0211	EA02C	2.000-2.300	20	0.5	1.25	-40 to +85	500	50	19.05x19.05x6.35	15	EC&EI
EA0311	EA03C	2.100-2.400	20	0.5	1.25	-40 to +85	500	50	19.05x19.05x6.35	15	EC&EI
EA0411	EA04C	2.300-2.700	20	0.5	1.25	-40 to +85	500	50	19.05x19.05x6.35	15	EC&EI
EA0511	EA05C	2.700-3.100	20	0.5	1.25	-40 to +85	500	50	19.05x19.05x6.35	15	EC&EI
FA0111	FA01C	3.000-3.500	20	0.5	1.25	-40 to +85	500	50	19.05x19.05x6.35	15	EC&EI
FA0211	FA02C	3.600-4.200	20	0.5	1.25	-40 to +85	500	50	19.05x19.05x6.35	15	EC&EI
GA0111	GA01C	4.400-5.000	20	0.5	1.25	-40 to +85	200	25	12.70x12.70x5.33	7	FC&FI
GA0211	GA02C	5.000-6.000	20	0.5	1.25	-40 to +85	200	25	12.70x12.70x5.33	7	FC&FI
GA0311	GA03C	5.400-5.900	20	0.5	1.25	-40 to +85	200	25	12.70x12.70x5.33	7	FC&FI
HA0111	HA01C	5.800-6.500	20	0.5	1.25	-40 to +85	200	25	12.70x12.70x5.33	7	FC&FI
HA0211	HA02C	6.400-7.200	20	0.5	1.25	-40 to +85	200	25	12.70x12.70x5.33	7	FC&FI
HA0311	HA03C	7.200-8.400	20	0.5	1.25	-40 to +85	200	25	12.70x12.70x5.33	7	FC&FI
IA0111	IA01C	9.000-10.000	20	0.5	1.25	-40 to +85	200	25	12.70x12.70x5.33	7	FC&FI
JA0111	JA01C	10.700-11.700	20	0.5	1.25	-40 to +85	200	25	12.70x12.70x5.33	7	FC&FI
JA0211	JA02C	11.700-12.700	20	0.5	1.25	-40 to +85	200	25	12.70x12.70x5.33	7	FC&FI
KA0111	KA01C	14.000-14.500	20	0.5	1.25	-40 to +85	200	25	12.70x12.70x5.33	7	FC&FI
KA0211	KA02C	14.500-15.500	20	0.5	1.25	-40 to +85	200	25	12.70x12.70x5.33	7	FC&FI
KA0311	KA03C	17.700-19.700	20	0.5	1.25	-40 to +85	200	25	12.70x12.70x5.33	7	FC&FI

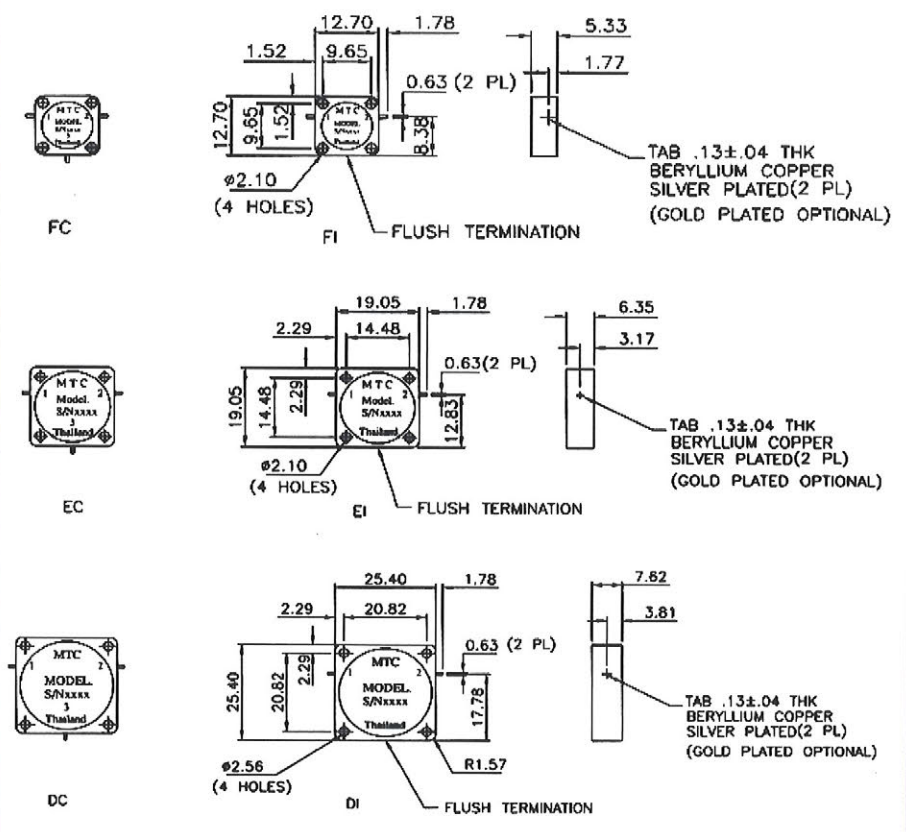
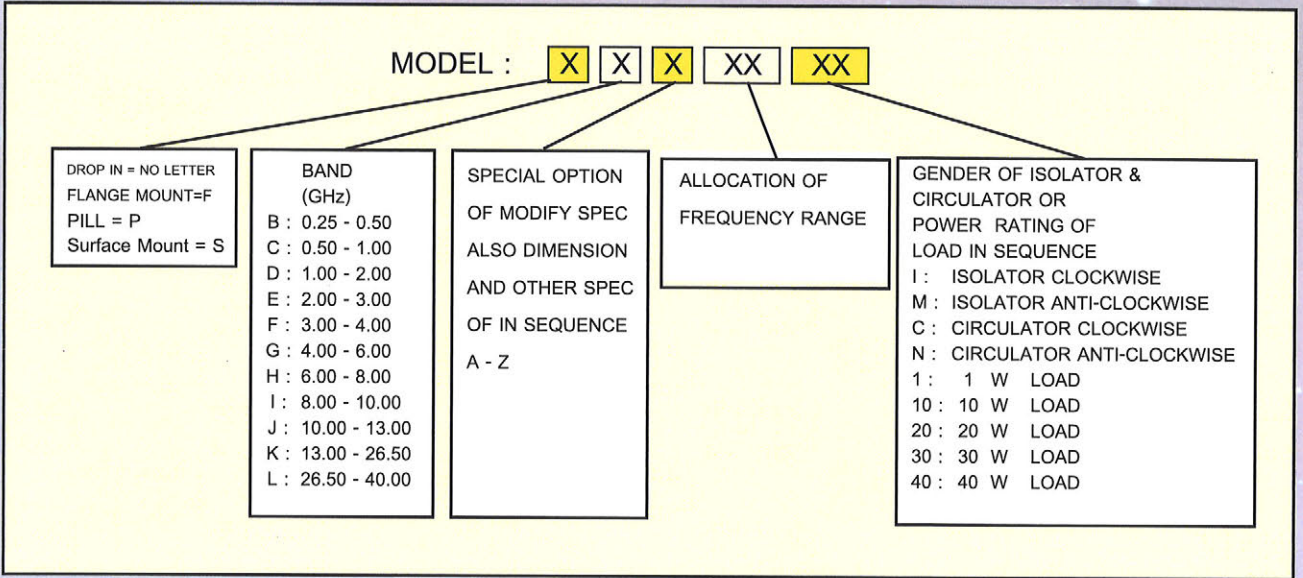


ISOLATOR



CIRCULATOR

OUTLINE DRAWING DROP-IN



Microwave Technology Corporation

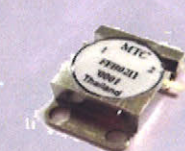
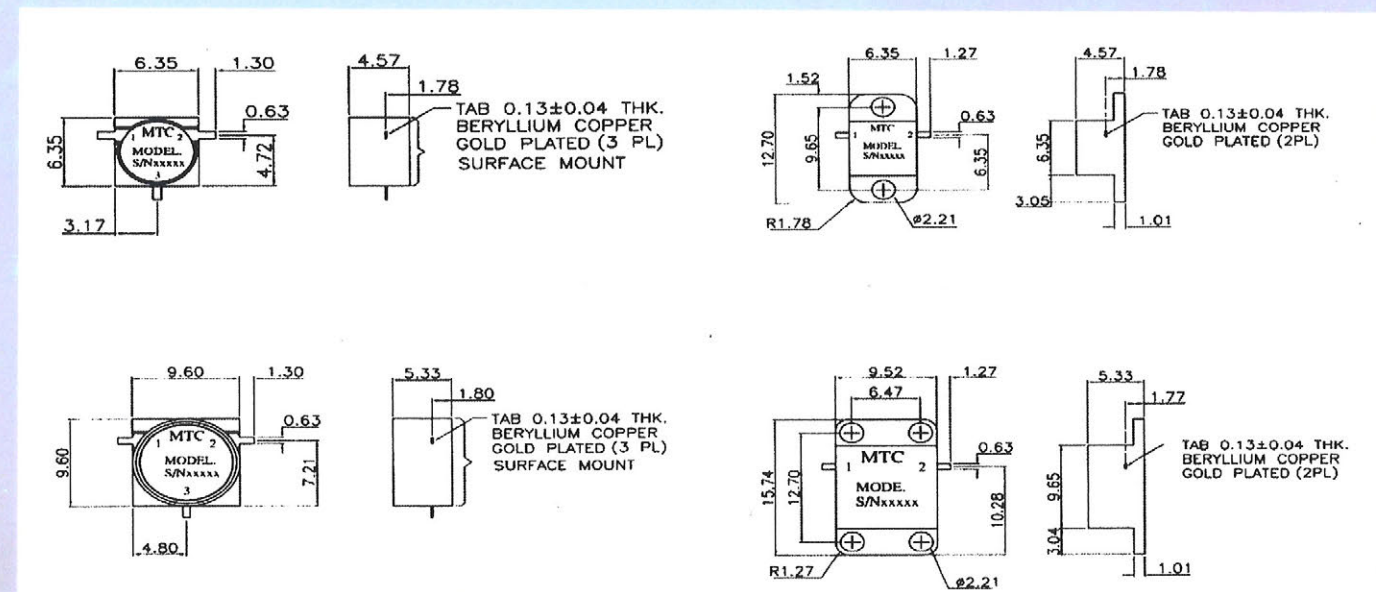
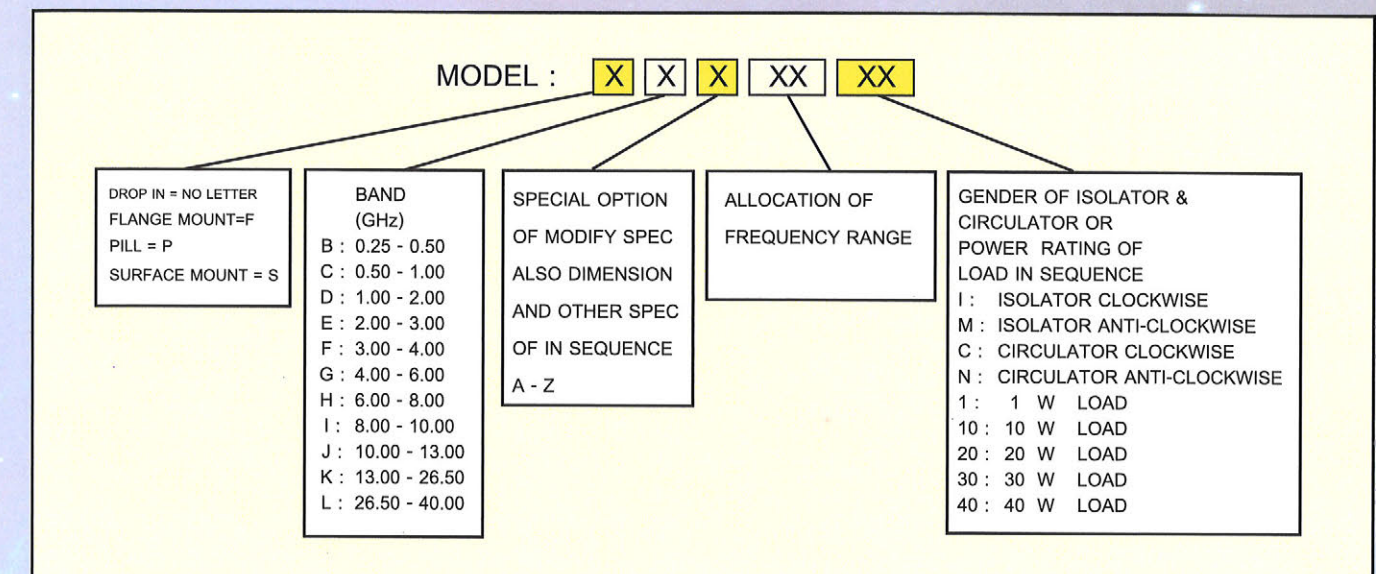
DROP IN FLANGE MOUNT ISOLATORS & SURFACE MOUNT CIRCULATORS

MTC offer a wide range of narrow and wide bandwidth RF and microwave isolators and circulators product in Coaxial and Drop-in configurations that extend from 200 MHz to 40 GHz frequency range. Customer can select from the Products listed below or to send us your requirements so we can meet your needs better.

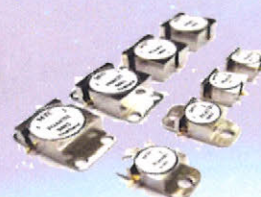
- Standard Isolator 1 Watt , Forward power 25 to 500 Watts and Reverse power 5 to 100 watts available
- Neodymium (NdFe B) free
- In - house customer design engineering
- Custom Surface Mount , Flange Mount packaging available
- Contact factory for custom requirement

Model No.		Frequency range	ISOLATION	Insertion loss	VSWR	Operating Temp.	Power Fwd / Rev (Watt)			Dimension		Weight
Isolator	Circulator	(GHz)	dB(Min)	dB(Max)	Max	deg C.	Fwd	Rev Cir	Rev Iso	Isolators (mm.)	Circulators (mm.)	(grams)
FFB0211	FFB02C	3.600-4.200	18	0.50	1.25:1	-40 to +85	20	20	1	9.52x15.74x5.33	9.60x9.60x5.33	3
FGA0711	FGA07C	4.200-4.400	20	0.50	1.25:1	-40 to +85	20	20	1	9.52x15.74x5.33	9.60x9.60x5.33	3
FGB0111	FGB01C	4.400-5.000	20	0.50	1.25:1	-40 to +85	20	20	1	9.52x15.74x5.33	9.60x9.60x5.33	3
FGA0811	FGA08C	4.700-5.300	20	0.50	1.25:1	-40 to +85	20	20	1	9.52x15.74x5.33	9.60x9.60x5.33	3
FGB0311	FGB03C	5.400-5.900	20	0.50	1.25:1	-40 to +85	20	20	1	9.52x15.74x5.33	9.60x9.60x5.33	3
FHB0111	FHB01C	5.800-6.500	20	0.50	1.25:1	-40 to +85	20	20	1	9.52x15.74x5.33	9.60x9.60x5.33	3
FHA0611	FHA06C	6.400-7.100	20	0.50	1.25:1	-40 to +85	20	20	1	9.52x15.74x5.33	9.60x9.60x5.33	3
FHA0711	FHA07C	7.100-7.800	20	0.50	1.25:1	-40 to +85	20	20	1	9.52x15.74x5.33	9.60x9.60x5.33	3
FIA0311	FIA03C	7.800-8.500	20	0.50	1.25:1	-40 to +85	20	20	1	9.52x15.74x5.33	9.60x9.60x5.33	3
FIA0411	FIA04C	9.200-9.700	20	0.50	1.25:1	-40 to +85	10	10	1	6.35x12.70x4.57	6.35x6.35x4.57	1.3
FIA0511	FIA05C	9.50-10.50	20	0.50	1.25:1	-40 to +85	10	10	1	6.35x12.70x4.57	6.35x6.35x4.57	1.3
FJA0411	FJA04C	10.00-11.00	20	0.50	1.25:1	-40 to +85	10	10	1	6.35x12.70x4.57	6.35x6.35x4.57	1.3
FJA0511	FJA05C	11.70-12.30	20	0.50	1.25:1	-40 to +85	10	10	1	6.35x12.70x4.57	6.35x6.35x4.57	1.3
FJA0611	FJA06C	12.20-12.75	20	0.50	1.25:1	-40 to +85	10	10	1	6.35x12.70x4.57	6.35x6.35x4.57	1.3
FJA0711	FJA07C	12.75-13.25	20	0.50	1.25:1	-40 to +85	10	10	1	6.35x12.70x4.57	6.35x6.35x4.57	1.3
FKA0811	FKA08C	13.00-13.60	20	0.50	1.25:1	-40 to +85	10	10	1	6.35x12.70x4.57	6.35x6.35x4.57	1.3
FKB0111	FKB01C	14.00-14.50	20	0.50	1.25:1	-40 to +85	10	10	1	6.35x12.70x4.57	6.35x6.35x4.57	1.3
FKA0911	FKA09C	15.00-18.00	20	0.60	1.25:1	-40 to +85	10	10	1	6.35x12.70x4.57	6.35x6.35x4.57	1.3
FKB0311	FKB03C	17.700-19.700	18	0.70	1.30:1	-40 to +85	10	10	1	6.35x12.70x4.57	6.35x6.35x4.57	1.3
FKA1011	FKA10C	18.400-19.000	20	0.60	1.25:1	-40 to +85	10	10	1	6.35x12.70x4.57	6.35x6.35x4.57	1.3
FKA1111	FKA11C	18.000-21.000	18	0.70	1.30:1	-40 to +85	10	10	1	6.35x12.70x4.57	6.35x6.35x4.57	1.3
FKA1211	FKA12C	21.200-23.600	18	0.70	1.30:1	-40 to +85	10	10	1	6.35x12.70x4.57	6.35x6.35x4.57	1.3

OUTLINE DRAWING FLANGE MOUNT



ISOLATOR



CIRCULATOR

129/1 Moo 3 Tambol Wang-Chula, Amphur Wang-Noi, Ayutthaya 13170 THAILAND

Tel: (6635)721 556-57, 721 559-60 Fax: (6635) 721 558 E-mail: thanakorn@loxinfo.co.th <http://www.microwave.co.th>

Microwave Technology Corporation

WAVEGUIDE ISOLATORS / CIRCULATORS

MTC manufactures a selection of W/G Isolators/Circulators are designed for wide range of high performance application at a low cost. These devices operate at frequencies from 7 to 18 GHz (WR62 to WR112).
For more information feel free to contacts us and discuss your needs with one of our design engineers.

- WAVEGUIDE CIRCULATORS

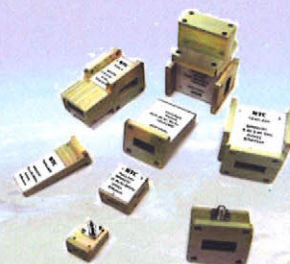
Model No.	Frequency range (GHz)	Isolation dB (Max)	Insertion loss dB (Max)	VSWR Max	Operating temp.(C)	Power (Watts) Avg Peak	Dimensions (mm) W L H	WAVEGUIDE TYPE	Mating Flange	Drawings No.
WR112C01	7.10-7.80	23	0.20	1.15	-30 to +70	200 500	60 65 47.75	WR112	UG138/U,UBR 84	Attache
WR112C02	7.80-8.50	23	0.20	1.15	-30 to +70	200 500	60 65 47.75	WR112	UG138/U,UBR 84	Attache
WR90C01	8.50-9.60	22	0.20	1.20	-30 to +70	200 500	50 55 41.4	WR90	UG135/U,UBR-100	Attache
WR90C02	9.00-10.00	22	0.20	1.18	-30 to +70	200 500	50 55 41.4	WR90	UG135/U,UBR-100	Attache
WR90C03	10.00-11.00	22	0.20	1.18	-30 to +70	200 500	50 55 41.4	WR90	UG135/U,UBR-100	Attache
WR90C04	10.70-11.70	22	0.20	1.18	-30 to +70	200 500	50 55 41.4	WR90	UG135/U,UBR-100	Attache
WR75C01	10.70-11.70	21	0.25	1.20	-30 to +70	100 500	38.10 44.50 38.10	WR75	WR75,UBR-120	Attache
WR75C02	11.50-12.60	21	0.25	1.20	-30 to +70	100 500	38.10 44.50 38.10	WR75	WR75,UBR-120	Attache
WR75C03	12.75-13.50	21	0.25	1.20	-30 to +70	100 500	38.10 44.50 38.10	WR75	WR75,UBR-120	Attache
WR75C04	13.00-14.50	21	0.25	1.20	-30 to +70	100 500	38.10 44.50 38.10	WR75	WR75,UBR-120	Attache
WR62C01	13.50-14.50	21	0.30	1.20	-30 to +70	100 250	38.10 38.10 33.30	WR62	UG1665,UBR-140	Attache
WR62C02	14.00-15.30	21	0.30	1.20	-30 to +70	100 250	38.10 38.10 33.30	WR62	UG1665,UBR-140	Attache
WR62C03	14.00-16.00	20	0.30	1.25	-30 to +70	100 250	38.10 38.10 33.30	WR62	UG1665,UBR-140	Attache
WR62C04	16.00-17.00	21	0.30	1.20	-30 to +70	100 250	38.10 38.10 33.30	WR62	UG1665,UBR-140	Attache

- WAVEGUIDE ISOLATORS

Model No.	Frequency range (GHz)	Isolation dB (Max)	Insertion loss dB (Max)	VSWR Max	Operating temp.(C)	Power (Watts) Avg Peak	Dimensions (mm) W L H	WAVEGUIDE TYPE	Mating Flange	Drawings No.
WR112I01	7.10-7.80	23	0.20	1.15	-30 to +70	10 500	60 65 47.75	WR112	UG138/U,UBR 84	Attache
WR112I02	7.80-8.50	23	0.20	1.15	-30 to +70	10 500	60 65 47.75	WR112	UG138/U,UBR 84	Attache
WR90I01	8.50-9.60	22	0.20	1.20	-30 to +70	5 500	50 55 41.4	WR90	UG135/U,UBR-100	Attache
WR90I02	9.00-10.00	22	0.20	1.18	-30 to +70	5 500	50 55 41.4	WR90	UG135/U,UBR-100	Attache
WR90I03	10.00-11.00	22	0.20	1.18	-30 to +70	5 500	50 55 41.4	WR90	UG135/U,UBR-100	Attache
WR90I04	10.70-11.70	22	0.20	1.18	-30 to +70	5 500	50 55 41.4	WR90	UG135/U,UBR-100	Attache
WR75I01	10.70-11.70	21	0.25	1.20	-30 to +70	3 500	38.10 44.50 38.10	WR75	WR75,UBR-120	Attache
WR75I02	11.50-12.60	21	0.25	1.20	-30 to +70	3 500	38.10 44.50 38.10	WR75	WR75,UBR-120	Attache
WR75I03	12.75-13.50	21	0.25	1.20	-30 to +70	3 500	38.10 44.50 38.10	WR75	WR75,UBR-120	Attache
WR75I04	13.00-14.50	21	0.25	1.20	-30 to +70	3 500	38.10 44.50 38.10	WR75	WR75,UBR-120	Attache
WR62I01	13.50-14.50	21	0.30	1.20	-30 to +70	3 250	38.10 38.10 33.30	WR62	UG1665,UBR-140	Attache
WR62I02	14.00-15.30	21	0.30	1.20	-30 to +70	3 250	38.10 38.10 33.30	WR62	UG1665,UBR-140	Attache
WR62I03	14.00-16.00	20	0.30	1.25	-30 to +70	3 250	38.10 38.10 33.30	WR62	UG1665,UBR-140	Attache
WR62I04	16.00-17.00	21	0.30	1.20	-30 to +70	3 250	38.10 38.10 33.30	WR62	UG1665,UBR-140	Attache

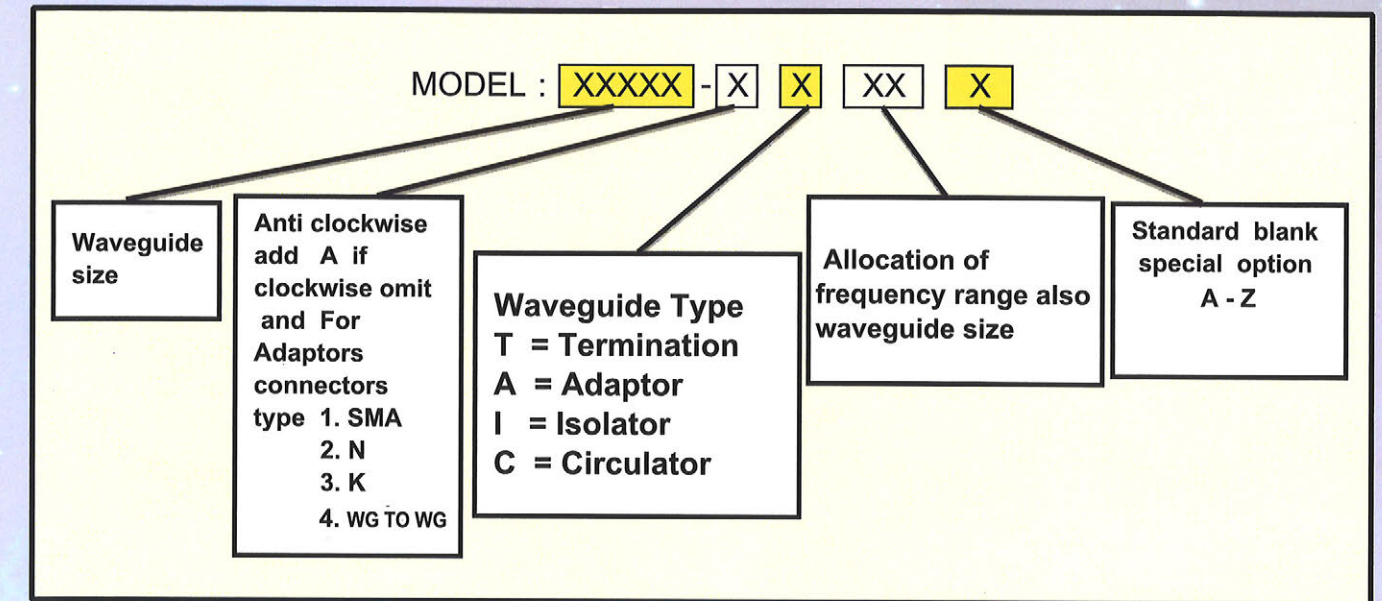


CIRCULATORS



ISOLATORS

SAMPLE MODEL OF WAVEGUIDE



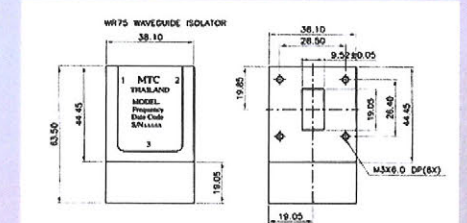
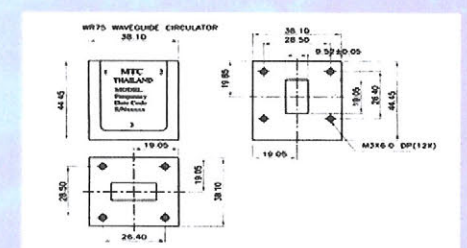
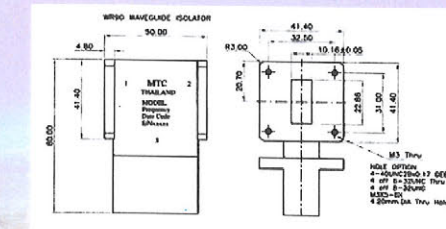
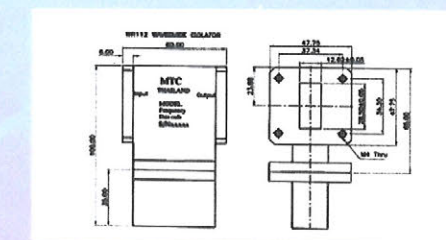
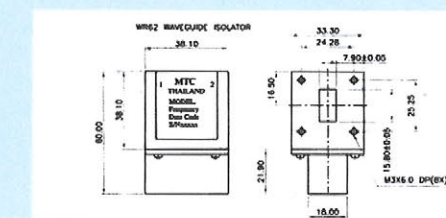
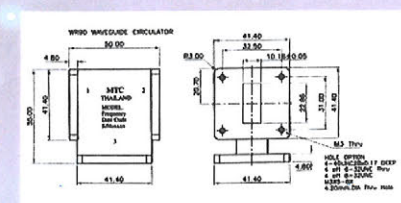
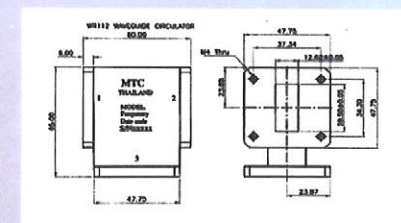
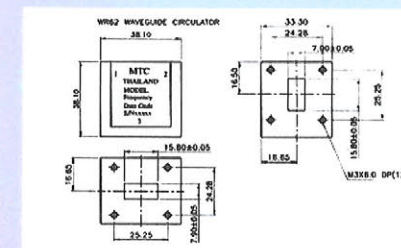
Standard

- Flange Type : Cover

- Material : Aluminium

- Finish : Yellow Chromate

Standard : Cover Flange



129/1 Moo 3 Tambol Wang-Chula, Amphur Wang-Noi, Ayutthaya 13170 THAILAND

Tel: (6635)721 556-57, 721 559-60 Fax: (6635) 721 558 E-mail: thanakornc@loxinfo.co.th <http://www.microwave.co.th>

Microwave Technology Corporation

WAVEGUIDE LOW POWER TERMINATIONS

Features :

- Full Waveguide Frequency Range



Model No.	Frequency range (GHz)	Waveguide Size	VSWR (Max)	Max average power (Watts)	Length inches
WR159T01	4.900-7.050	WR159	1.10	7	6.00
WR137T01	5.850-8.200	WR137	1.10	6	5.50
WR112T01	7.05-10.00	WR112	1.10	4	5.00
WR90T01	8.20-12.40	WR90	1.10	4	4.00
WR75T01	10.00-15.00	WR75	1.10	2	4.00
WR62T01	12.40-18.00	WR62	1.10	1.5	4.00
WR42T01	18.00-26.50	WR42	1.10	1.5	2.50
WR28T01	26.50-40.00	WR28	1.10	1.5	2.00

Waveguide to SMA Coaxial Adaptors

Waveguide to SMA coaxial adaptor offer enhanced VSWR performance over the full waveguide frequency band.

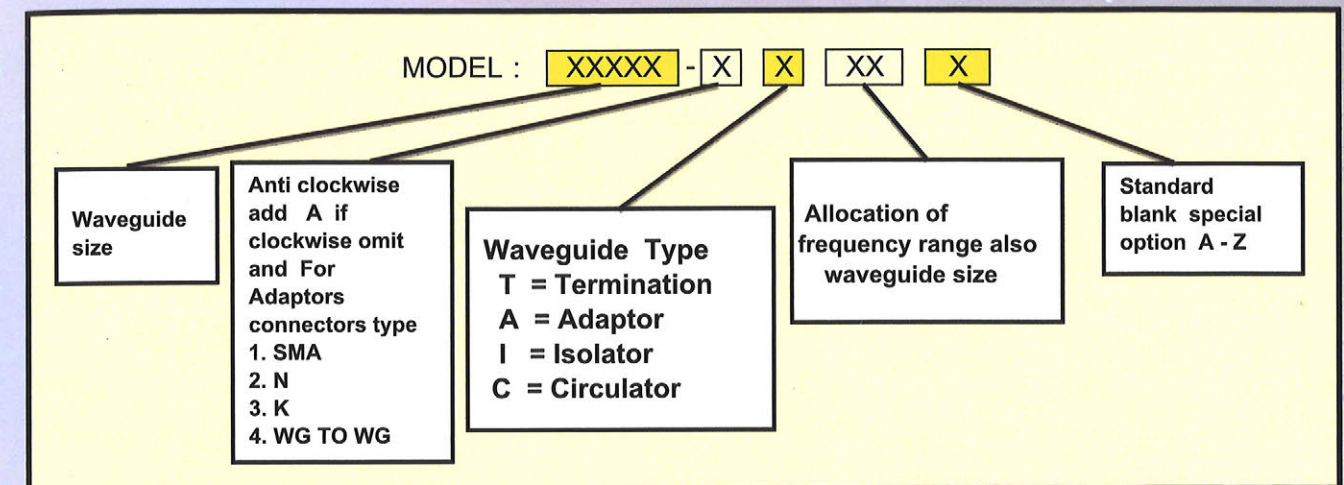
The adaptors are fitted with SMA Female connectors as standards. However, models are optionally available with male connectors , please contact our sales office for further details.

Narrowband models covering typical 20% of the full waveguide band with a VSWR of 1.10 are also available.



Model No.	Frequency range (GHz)	Waveguide Size	VSWR (Max)	Insertion loss (dB max)	Length inches
WR159-1A01	4.900-7.050	WR159	1.25	0.18	2.00
WR137-1A01	5.850-8.200	WR137	1.25	0.20	1.75
WR112-1A01	7.05-10.00	WR112	1.25	0.21	1.75
WR90-1A01	8.20-12.40	WR90	1.25	0.23	1.25
WR75-1A01	10.00-15.00	WR75	1.25	0.25	1.25
WR62-1A01	12.40-18.00	WR62	1.25	0.27	1.25
WR42-1A01	18.00-26.50	WR42	1.25	0.32	1.25
WR28-1A01	26.50-40.00	WR28	1.25	0.39	1.25

SAMPLE MODEL OF WAVEGUIDE



Standard

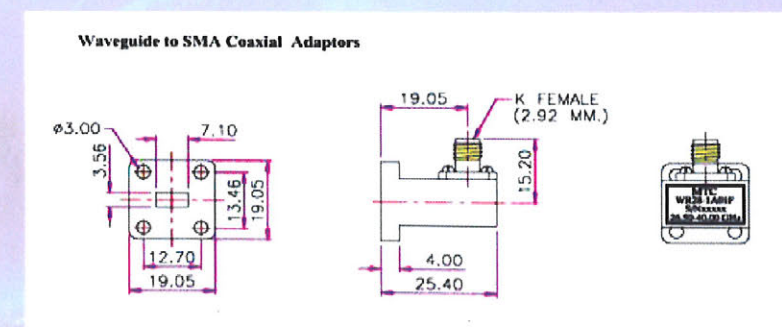
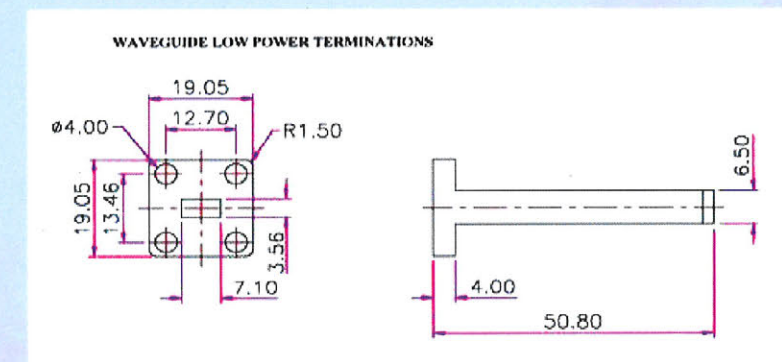
Flange Type : Cover



Standard : Cover Flange

Material : Aluminium

Finish : Yellow Chromate



129/1 Moo 3 Tambol Wang-Chula, Amphur Wang-Noi, Ayutthaya 13170 THAILAND

Tel: (6635)721 556-57, 721 559-60 Fax: (6635) 721 558 E-mail: thanakornc@loxinfo.co.th <http://www.microwave.co.th>